Microsoft

Project Server Virtual Migration Environment (VME) Guide

This document supports Microsoft® Project Server 2010.

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Virtual Migration Environment Overview

What is the Virtual Migration Environment?

To migrate from Microsoft Office Project Server 2003 to Microsoft Project Server 2010, first you must migrate your data to Microsoft Office Project Server 2007 format. If you do not have an Office Project Server 2007 deployment readily available, you can choose to use the Project Server 2010 Virtual Migration Environment (VME) to migrate your data to Office Project Server 2007 format. The Project Server 2010 VME is a virtualized Office Project Server 2007 environment containing all the necessary applications and utilities required to migrate Project Server 2003 data to Office Project Server 2007

The VME is a fully configured Office Project Server 2007 Service Pack 2 (SP2) environment packaged as a Hyper-V image. The VME should be run as a stand-alone environment for the sole purpose of migrating Project Server 2003 data to the Office Project Server 2007 data format (it does not need be connected to your network or require network access).

Using the VME to migrate your Project Server 2003 data provides the following advantages:

- Runs in a stand-alone environment and does not require network access.
- Requires minimal hardware investment.
- Provides a fully functional environment that requires little intervention to use.
- Provides the ability to run migrations iteratively so that issues can be resolves and retested.

Warning:

Do not use the VME for production use. It is intended to be used only as a pass-through environment to migrate your Project Server 2003 data to Office Project Server 2007.

Virtual Migration Environment Requirements

The virtual environment configuration requires the following:

- The Hyper-V feature on Windows Server 2008 R2
- 3096 Mb or greater of allocated memory for the image
- 2 Virtual Processors are recommended for the image

Important:

The VME is only supported on Windows Server 2008 R2 using the Hyper-V Manager feature. The VME will not run on Windows Server 2008.

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Since the VME is designed to be run in a standalone environment, an internal network must still exist between the virtual machine running the VME and the Virtual Host Machine. This must exist in order to transfer your Project Server 2003 databases (for example, attached to the Virtual Host Machine via an external hard drive) to the virtual machine hosting the VME. After the Project Server 2003 data has been migrated to Project Server 2007 through the VME, the Project Server 2007 databases can then be transferred back to the external hard drive.

What is contained in the VME?

When the Project Server 2010 VME image is restored to a virtual machine (VM) on a Hyper-V server, the VM will have the following two hard drives:

- Virtual Hard Drive 1: Contains all system software. This virtual hard drive will have an expiration limit of **180** days. The expiration limit is intended to insure that the applications are not used for production use, for which it is not supported.
- Virtual Hard Drive 2 (E: drive): Contains all VME content (SQL scripts, migration configuration files, and commands needed to run the migration).

Operating system and installed applications

The VME contains the following operating system and installed software applications:

- Windows Server 2008 R2 operating system
- Office Project Server 2007 with SP2 and the October 2009 Cumulative Update
- Microsoft Office SharePoint Server 2007 with Service Pack 2 (SP2) and the October 2009 Cumulative Update
- Windows SharePoint Services 3.0 with Service Pack 2 (SP2) and the October 2009 Cumulative Update
- Microsoft Office Project Professional 2007 with Service Pack 2, the October 2009 Cumulative Update and the Project Migration Tool installed
- Microsoft SQL Server 2005 with Service Pack 3 and Cumulative Update 17

Note:

The Windows Server 2008 Release 2 operating system must be activated within 10 days. You can use the Activate by phone option if the VME VM is not on the network.

Migration scripts overview

The SQL scripts on Virtual Hard Drive 2 (E: drive) were created to assist in the migration process. Use of these scripts is optional, but highly recommended. These scripts include:

Script Name	Purpose
VME Script 1.sql	Checks your Project Server 2003 data for conditions that may prevent the data from upgrading successfully.

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VME Script 2.sql	Provides statistics about your Project Server 2003 data that you are migrating (for example, number of projects, tasks, assignments, etc.)
VME Script 3.sql	Provides a data validation snapshot of your pre-migration Project Server 2003 data and stores it to a database. This data can be compared to a post migration data snapshot (from VME Script 5.sql) to determine differences between the pre-migration and migrated data.
VME Script 4.sql	Lists all projects with associated project workspace sites from the Project Server 2003 database.
VME Script 5.sql	Provides a data validation snapshot of migrated Project Server 2007 data and stores it to a database.
VME Script 6.sql	Lists all projects with associated project workspace sites from the migrated Project Server 2007 database.
VME Script 7.sql	Compares data validation snapshots (pre-migration Project Server 2003 and post-migration Project Server 2007) and list differences between them. This can help to determine if certain things were not migrated.
VME Script 8.sql	Compares projects with associated workspaces from pre-migration (Project Server 2003) and Post-Migration (Project Server 2007), and then shows the projects with workspaces that have not been re-linked and/or converted in the Project Server 2007 environment after migration.
VME Script 9.sql	Does a pre-migration check on the Project Server 2007 database to check for known data issues that can cause upgrade to fail when upgrading to Project Server 2010.
VME Script 10.sql	Checks your Project Server 2007 data for a known issue in which Multi-language lookup tables are not updated correctly after migration. This script will make corrective action to your Project Server 2007 data.

A complete listing of the code contained in the scripts will be included in the Migration Scripts section of this document.

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Configuring the Hyper-V environment

Important:

The VME is only supported on Windows Server 2008 R2 using the Hyper-V Manager feature. The VME will not run on Windows Server 2008.

This chapter describes the procedures required to set up the Project Server 2010 Virtual Migration Environment (VME) and move your Project Server 2003 data to the VME. Restoring the VME image to a virtual machine will require you to have a working Windows Server 2008 R2 Hyper-V host machine which has at least 4G of RAM total and 3G of RAM available for use by the VME. There should be a minimum of four times the size of your Project/SharePoint databases available to the VME for the upgrade. The host machine can be either standalone or connected your network. The VME is designed to be used in a standalone fashion as it uses local accounts for all actions.

After the VME is restored, a snapshot of the VM is available in Hyper-V Manager so that you will be able to reset the VM to its original state. This allows you to easily restore the original image if you need to rerun the migration.

The sections in this chapter include the following:

- Create a backup of existing Project Server 2003 databases
- Hyper-V host computer configuration
- Import the Virtual Migration Environment
- Set up for data exchange between host and VM
- Load data into the VME

Create a backup of existing Project Server 2003 databases

In order to load your Project Server 2003 data into the VME, on the SQL Server hosting your Project Server 2003 data you will need to create a database backup of the following:

- Project Server 2003 database
- Windows SharePoint Services 2.0 configuration and content databases

Important:

Project Server 2003 Service Pack 3 is a requirement for migrating your data to Project Server 2007. Prior to creating database backups, verify that Project Server 2003 Service Pack 3 is installed in your Project Server 2003 environment.

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If you have project workspace data that you plan to migrate, you will also want to verify that Windows SharePoint Services 2.0 is updated to Service Pack 3 as well.

Note:

See Pre-migration tasks for migrating your Project Server 2003 data for information about preparing your Project Server 2003 data for migration to Office Project Server 2007.

You may want to make the Project Server 2003 database backup files accessible to the Virtual Migration Environment virtual machine by copying them to an external hard drive. This allows you to attach the external hard drive to the Virtual Machine Host to make them accessible to the VME. After you have migrated your Project Server 2003 data to Project Server 2007 on the VME, you can then copy the migrated data to the external hard drive in order to upgrade in Project Server 2010.

Hyper-V host computer configuration

The Hyper-V host computer can be network connected. If so, the process of moving database backups to the host becomes a copy and paste operation from the backup directory to a directory on the Hyper-V host.

If the Hyper-V host machine is a standalone machine, you will either need to use USB connected disk storage (for example, an external hard drive) to move the databases to the machine or you will need to transfer the backup to media (for example, a DVD) and copy it to the host.

Import the Virtual Migration Environment

Important:

The VME is only supported on Windows Server 2008 R2 using the Hyper-V Manager feature. The VME will not run on Windows Server 2008.

The VME will need to be imported from the Virtual Migration Environment download page (http://go.microsoft.com/?linkid=9729345) in the Microsoft Download Center . The following procedure is used to import the VME on the Windows Server 2008 R2 computer running the Hyper-V Manager feature.

To import the Virtual Migration Environment:

1. Create a directory on the Hyper-V host to contain the VME files. The compressed files are about 7 GB and when uncompressed the files occupy 17 GB. So, plan appropriately for hard disk space.

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2. Download the ten ProjectVME compressed files (one executable file and nine .rar files) from the download page. After decompression is complete, you will see a sub-directory named "ProjectVME".

3. When complete, start the Hyper-V manager on the Hyper-V host machine.

4. From the Actions pane, select **Import Virtual Machine**.

5. In the Import Virtual Machine dialog box, click **Browse**. In the Select Folder dialog box, select the ProjectVME directory created in Step 2, and then click **Select Folder**. This will contain a config.xml file.

6. In the Import Virtual Machine dialog box, click **Import**.

Note:

Do not start the VME virtual machine yet.

Set up for data exchange between host and VM

You can create a virtual network on the server running Hyper-V to provide communication between the virtualization server and virtual machines by creating an Internal virtual network. An Internal Virtual Network allows for communications between the Virtual Machines and the physical computer.

The following procedures provide the basic instructions for configuring virtual networks.

To create an virtual network

1. Open Hyper-V Manager.

2. From the Actions pane, click **Virtual Network Manager**.

3. In the Virtual Network Manager page, in the Create virtual network section, in the **What type of network you want to create?** list, select **Internal**. Click **Add**.

4. In the New Virtual Networks page, in the name field type a name for the new network. Review the other properties and modify them as necessary. Click **OK** to create the virtual network and close the Virtual Network Manager.

To add a network adapter to a virtual machine

1. Click Start, click Administrative Tools, and then click Hyper-V Manager.

2. On the Hyper-V Manager page, in the Virtual Machines list, select the virtual machine that you want to configure.

Note:

The virtual machine you select must not be in a **Running** state.

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3. In the Action pane, in the menu for the virtual machine you selected, click **Settings**.
4. On the Settings page, in the Add Hardware section, choose a network adapter or a legacy network adapter. Network adapters can only be added to a virtual machine when the machine is turned off. For more information about each type of adapter, see the **Additional considerations** section below. Click **Add**.
5. In the Network Adapter section, from the Network drop-down list select the virtual network you want to connect to.
6. In the MAC Address section, if you want to configure a static MAC address or virtual LAN identifier, specify the address or identifier you want to use.
7. Click **OK**.

For more information, see the following blog post titled Exchanging files between Parent and Child Partitions in Hyper-V.

Additional considerations

By default, membership in the local Administrators group, or equivalent, is the minimum required to complete this procedure. However, an administrator can use Authorization Manager to modify the authorization policy so that a user or group of users can complete this procedure.

A legacy network adapter works without installing a virtual machine driver because the driver is already available on most operating systems. The legacy network adapter emulates a physical network adapter, multiport DEC 21140 10/100TX 100 MB. A legacy network adapter also supports network-based installations because it includes the ability to boot to the Pre-Boot Execution Environment (PXE). The legacy network adapter is not supported in the 64-bit edition of Windows Server 2003 or the Windows XP Professional x64 Edition.

Important:

Make sure to reboot your VME virtual machine after initial start. The reason you need to do this is that the operating system will determine that the hardware you are running is different from the hardware on which the VME was created and last run, requiring a reboot.

Load data into the VME

The VME comes with two virtual hard drives. The code is loaded on drive C: and the utilities and databases to convert should be loaded on drive E:.

The User ID is **Administrator**

The password is **pass@word1**

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Copy database backups to the VME

1. On the VME Virtual Machine, open a Command Prompt and run the command **IPConfig**. Note the *Autoconfiguration IPv4 Address*.

2. On the Hyper-V host machine, click **Start**, then click **Run**. At the Run window in the Open field, type **\\<IP Address of the VME virtual machine>\E$**. If prompted for your credentials, enter the credentials for the VME VM listed above (for example, Username is VME\Administrator and password is "pass@word1").

3. Create a folder in the E drive (for example, "ProjectServer2003data"). Copy your Project 2003 and Windows SharePoint Services 2.0 SQL databases to this folder.

Restore Your Database to the VME

1. Switch to the VME Virtual Machine.

2. Click **Start**, click **All Programs**, click **Microsoft SQL Server 2005**, and then click **SQL Server Management Studio**.

3. On the Connect to Server screen, click **Connect**.

4. On the Microsoft SQL Server Management Studio page, in the Object Explorer section, right-click **Databases**, and then click **Restore Databases**.

5. On the Restore Database page, in the Destination to restore section, in the **To database** field type **Project2003SourceDB**.

Important:

When restoring your databases, verify that you are renaming them to the exact name specified in the procedures. The migration tool configuration file and the optional migration scripts need the database names to be correct to function correctly.

6. In the Source for restore section, to the right of the **From device** radio button, click the **…** button.

7. In the Specify Backup dialog box, click **Add**.

8. Select the folder on the E drive to which you copied the database backups and select the Project Server 2003 database backup file. Click **OK**, On the Specify Backup screen, click **OK** again.

9. In **the Select the backup sets to restore** list, click the checkbox in the Restore column.

10. Click **OK**. Your database will be restored.

Note:

If your Project Server 2003 database is partitioned into two separate databases, you will also need to restore the Project Web database. Run through the step again to restore this database. Make sure to

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restore this database to the name **Project2003SourceWebDB**.

Restoring your project workspace data

Important:

This step is optional and is only required if you are migrating your Project Server 2003 project workspace data.

Your Project Server 2003 project workspace data is contained in a Windows SharePoint Services 2.0 content database in the SQL Server that is hosting your Project Server 2003 farm environment.

Windows SharePoint Services 2.0 was an optional application that you could install with Project Server 2003. It allowed for the creation of project workspaces in Project Server 2003, and all data (issues, risks, and documents stored in the project workspaces, as well as associations between the Project items and Windows SharePoint Services 2.0 items) are stored to a Windows SharePoint Services 2.0 content database. If you want to migrate your project workspace data to Project Server 2010, this database must be restored and migrated to Windows SharePoint Services 3.0. The VME allows you to do this as well.

Run the Pre-Upgrade Pre-scan tool on your Windows SharePoint Services 2.0 content database

This has to be done on a working SharePoint Team Services v2 farm

Prior to migrating the project workspace sites and their content to Windows SharePoint Services 3.0, it is recommended to use the Pre-Upgrade Pre-scan tool to validate the SharePoint content database containing the project workspaces.

In addition, if customization has been applied to site templates or objects, the Pre-scan utility will validate if they are compatible with the newer version of SharePoint (WSS 3.0).

Important:

This must be one in your Project Server 2003 environment. It does not occur on the VME.

The Pre-scan Utility must be downloaded from:

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http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=e8a00b1f-6f45-42cd-8e56-e62c20feb2f1

Extract the utility onto the server running Windows SharePoint Services 2.0 and run the utility with the command:

Prescan.exe /all

View the following is you encounter any problems when running the Pre-Scan tool:

http://blogs.msdn.com/joelo/archive/2007/05/01/your-friend-prescan-what-it-does-part-2.aspx

http://blogs.technet.com/wbaer/archive/2006/12/22/prescan-errors-what-they-mean.aspx

Moving the Windows SharePoint Service 2.0 content database to the VME

After running Pre-scan, make a backup copy of the content database containing your project workspace data. After making the backup copy of the database, move the backup copy of the database to the VME virtual machine, and then restore the database in SQL Server 2005. Use the procedures described in the **Load Data to the VM** section. Make sure to restore the content database to a unique database name.

For more information about migrating your Windows SharePoint Services 2.0 content database to Windows SharePoint Services 3.0 in the Virtual Migration Environment, see **Full Migration from Windows SharePoint Services 2.0 (to a different computer)** section of Upgrade project workspaces from Project Server 2003.

Note:

For additional documentation about SharePoint Server migration and upgrade, see the **SharePoint** folder on the E drive of the VME. To view the content, you must first click **Click I Accept at Bottom to Start** (located in the SharePoint folder) to accept the EULA agreement.

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Pre-Migration Phase

After you have restored your Project Server 2003 data in the Virtual Migration Environment, you must run through the following pre-migration processes before you attempt to run the migration:

- Check for Reserved Custom Field, Lookup Table, or Outline Code name conflicts
- Run scripts on your Project Server 2003 data (optional)

Check for Reserved Custom Field, Lookup table, or Outline Code name conflicts

There are certain custom fields, lookup table, and outline code names that are reserved in both Office Project Server 2007 and Project Server 2010. Verify that your Project Server 2003 data does not have custom field names that are in conflict with the names reserved for both Project Server 2007 and Project Server 2010. If any of these names are used in the current Office Project Server 2003 database, the custom fields and outline codes must be changed before proceeding further with the migration.

You will need to make corrective action to the Project Server 2003 database through Project Professional 2003 in your Project Server 2003 environment. After making corrective action, make a backup copy of the Project Server 2003 database, and use the steps in the Load Data to the VME section of this document to restore the updated database to the VME virtual machine.

Reserved Outline Code/Lookup Table Names

Outline Code Name	Type	Office Project Server 2007	Project Server 2010
Cost Type	Resource	X	X
Health	Task	X	X
State	Project	X	X
Team Name	Resource	X	X
Department			X
Flag Status			X

Reserved Custom Field Names

Custom Field Name	Type	Office Project Server 2007	Project Server 2010
Cost Type	Resource	X	X

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Health	Task	X	X
State	Project	X	X
Team Name	Resource	X	X
Sample Approved Finish Date	Project		X
Sample Approved Start Data	Project		X
Sample Areas Impacted	Project		X
Sample Assumptions	Project		X
Sample Business Need	Project		X
Sample Compliance Proposal	Project		X
Flag Status	Task		X
Sample Goals	Project		X
Sample Post-Implementation Review Date	Project		X
Sample Post-Implementation Review Notes	Project		X
Sample Primary Objectives	Project		X
Project Departments	Project		X
Project Impact	Project		X
Sample Proposal Cost	Project		X
Sample Proposed Finish Date	Project		X
Sample Proposed Start Date	Project		X
Relative Importance	Project		X
Resource Departments	Resource		X

Run scripts on your Project Server 2003 data

You can optionally run the following migration scripts on your Project Server 2003 data prior to migration:

- Run Migration Script 1 to check your Project Server 2003 data
- Run Migration Script 2 to check capture statistics about your data
- Run Migration Script 3 to capture a Project Server 2003 data snapshot

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- Run Migration Script 4 to capture all Project Server 2003 projects with associated project workspaces

Run Migration Script 1 to check your Project Server 2003 data

Migration Script 1 is one of several migration scripts included in the Virtual Migration Environment to assist in migrating your Project Server 2003 data. Running this script against the Microsoft Office Project Server 2003 database identifies possible errors that will prevent the migration process from completing. This SQL script only reads data the database (it will not write to the Project Server 2003 database).

Note:

For Project Server 2003 Service Pack 3 (SP3), see Project Server 2003 Service Pack 3 (SP3).

This script identifies the following problems:

- Version of Project Server 2003 database (which must be SP3 before the migration)
- Projects are checked out
- Projects have been externally edited
- Projects have status updates pending
- Duplicate enterprise resources
- Duplicate enterprise resources in projects
- Enterprise Global template externally edited
- Enterprise Global template checked out
- Enterprise Global template locked
- Default language is different between the Project tables and the Web tables
- Resource has a comma in its name
- Required enterprise resource custom fields have no values
- Required enterprise resource custom fields have values which are not in the lookup table definition
- Enterprise resources externally edited
- Enterprise resource duration custom fields have value lists
- Enterprise resource duration custom fields have invalid values

To run Script 1:

1. On the VME desktop, click **Start Migration Process**. This will open a Windows Explorer screen which will display the contents of Drive E.
2. In Windows Explorer, double-click the following folder:

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   a. If you have one Project Server 2003 database, open the **Migrate_Proj_2003_Single_DB** folder.
   b. If you have split your Project Server 2003 databases, open Migrate_Proj_2003_Split_DB.

3. Open the Verification Scripts folder, and then click VME Script 1.sql. This will open Microsoft SQL Server Management Studio and will display Script 1.
4. Click Execute to run the script.
5. Check the results of the script. Take corrective action as necessary.

Note:

For additional information about Project Server 2003 data validation steps and corrective actions, see Fix data issues identified in the pre-migration script A1 (Project Server 2010).

You will need to make corrective action to the Project Server 2003 database through Project Professional 2003 in your Project Server 2003 environment. After making corrective action, make a backup copy of the Project Server 2003 database, and use the steps in the **Load Data to the VME** section of this document to restore the updated database to the VME virtual machine. You can the re-run Script 1 on the updated database to verify that all issues have been fixed.

Note:

You can view the code for Migration Script 1 in the Migration Scripts chapter in this document.

Run Migration Script 2 to check capture statistics about your data

Run Script 2 to capture statistics about the project data contained in your Project Server 2003 database that you plan to migrate. This script's output will provide information about:

- Size of the databases (Project Tables and Web Tables databases)
- Number of projects
- Number of inserted projects
- Number of cross-project links
- Number of tasks
- Number of assignments
- Number of Enterprise resources
- Number of custom fields in use
- Number of Project-authenticated users
- Number of Windows-authenticated users
- Number of security groups

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- Number of security categories
- If there is Windows SharePoint Services integration
- Number of linked issues
- Number of linked risks
- Number of linked documents
- Number of custom Project Web Access views

This scripts output provides you information about your Project Server 2003 data that you are migrating. You can make a general estimate at how long the migration process will take from some of this data. Generally, the migration process will take about 30 seconds to one minute for each project you are migrating, varying by a number of factors (number of assignments, tasks, computer speed, etc). Therefore, if your Project Server 2003 database contains 600 projects, it will take about 10 hours to migrate these projects (using the one minute per project estimate).

To run Script 2:

1. On the VME desktop, click **Start Migration Process**. This will open a Windows Explorer screen which will display the contents of Drive E.
2. In Windows Explorer, double-click the following folder:

    a. If you have one Project Server 2003 database, open the **Migrate_Proj_2003_Single_DB** folder.
    b. If you have split your Project Server 2003 databases, open **Migrate_Proj_2003_Split_DB**.

3. Open the Verification Scripts folder, and then click VME Script 2.sql. This will open Microsoft SQL Server Management Studio and will display Script 2.
4. Click **Execute** to run the script.
5. Check the results of the script for information about your data.

Note:

You can view the code for Migration Script 2 in the Migration Scripts chapter in this document.

Run Migration Script 3 to capture a Project Server 2003 data snapshot

Run Script 3 to take a data snapshot of the Project Server 2003 database that you plan to migrate. The script will take a data snapshot of the Projects and Tasks tables and then store the information in a table

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created dynamically within the script. The stored results from this script can be compared later to a post-migration data snapshot to verify if all data had migrated successfully.

To run Script 3:

1. On the VME desktop, click **Start Migration Process**. This will open a Windows Explorer screen which will display the contents of Drive E.
2. In Windows Explorer, double-click the following folder:

    a. If you have one Project Server 2003 database, open the **Migrate_Proj_2003_Single_DB** folder.
    b. If you have split your Project Server 2003 databases, open **Migrate_Proj_2003_Split_DB**.

3. Open the Verification Scripts folder, and then click VME Script 3.sql. This will open Microsoft SQL Server Management Studio and will display Script 3.
4. Click **Execute** to run the script.
5. The results from the script will save to the **ProjectServer_Migration_Data_Validation** database in the table named **dbo.Migration_PS2003_Data_Validation_Snapshot**.

Note:

You can view the code for Migration Script 3 in the Migration Scripts chapter in this document.

Run Migration Script 4 to capture all Project Server 2003 projects with associated project workspaces

Run the Microsoft Office Project Server 2003 Script 4 to take a data snapshot of the Microsoft Office Project Server 2003 database from the Project table and then stores the data in a table created dynamically within the script. Script 4 lists all projects in the Project Server 2003 database that have an associated project workspace site. This data is saved to a table in the ProjectServer_Migration_Data_Validation database and will be compared to post-migration results to check to see if all Project Server 2003 projects with associated workspaces have been migrated and relinked.

To run Script 4:

1. On the VME desktop, click **Start Migration Process**. This will open a Windows Explorer screen which will display the contents of Drive E.
2. In Windows Explorer, double-click the following folder:

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   a. If you have one Project Server 2003 database, open the **Migrate_Proj_2003_Single_DB** folder.
   b. If you have split your Project Server 2003 databases, open **Migrate_Proj_2003_Split_DB**.

3. Open the Verification Scripts folder, and then click VME Script 4.sql. This will open Microsoft SQL Server Management Studio and will display Script 4.
4. Click **Execute** to run the script.
5. The results from the script will save to the **ProjectServer_Migration_Data_Validation** database in the table named **dbo.Migration_PS2003_ProjectWorkspaces**.

Note:

You can view the code for Migration Script 4 in the Migration Scripts chapter in this document.

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The Migration Phase

After all of the pre-migration steps have been completed and the Project Server 2003 data is in a migrateable state, you can proceed to the Migration Phase to migrate the Project Server 2003 data to Project Server 2007. The Migration Phase includes the following:

- Run Verification
- Migrate your Enterprise Global data
- Migrate your Project Server 2003 project data
- Attach your Windows SharePoint Services 2.0 content database to the farm
- Relink project workspace sites

Note:

Attach your Windows SharePoint Services 2.0 content database to the farm and **Relink project workspace sites** are optional migration steps only required if you plan to your Project Server 2003 project workspace data.

Run Verification

You must first run the migration verification on your Project Server 2003 data. The verification process runs a minimum of data validation checks and writes this information to the migration log file. It specifically checks for the following conditions in your data which would cause your migration to fail:

- Projects that are checked out
- Projects that have been modified externally
- Projects with pending status updates
- Duplicate enterprise resources

When you run the migration verification, a status screen will display the progress. If no potential problems are found, the status screen will end with “Project Migration Successful”. If your migration fails, check the migration log for more information about the error. The migration log file and its location will be displayed in the first few lines of the status screen. Note that the migration verification process will not write to or fix issues in the Project Server 2007 database.

Note:

For additional information about Project Server 2003 data validation steps and corrective actions, see Fix data issues identified in the pre-migration script A1 (Project Server 2010).

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To run migration verification

1. On the VME desktop, click **Start Migration Process**. This will open a Windows Explorer screen which will display the contents of Drive E.
2. In Windows Explorer, double-click the following folder:

   a. If you have one Project 2003 database, open the **Migrate_Proj_2003_Single_DB** folder.
   b. If you have split your Project Server 2003 databases (Project, open **Migrate_Proj_2003_Split_DB**.

3. Click **1-Run Verification** to start the migration tool. This will open up a command prompt window that displays the status of the verification checks as they occur.
4. When the verification checks complete successfully, the End Summary will display "Project Migration successful".

   If an error is encountered, check the migration log file for more information about the problem. You can specific migration log file for this migration is displayed in the first few lines (for example, "Using log file: E:\MigrationLogs\Batch1-20100503-1704.log"). The log can be viewed in a text editor such as Notepad.

Note:

Although migration verification makes several key data validation checks on your Project Server 2003 data, we recommend that you run SQL Script 1 as well. SQL Script 1 includes many additional data validation checks that can potentially cause your migration to fail.

Migrate your Enterprise Global Data

You must first migrate your Project Server 2003 Enterprise Global data to Project Server 2007 before you migrate your project data. The Virtual Migration Environment uses the migration tool utility and calls on a pre-configured configuration file to migrate your Enterprise Global data. The VME automates this process for you.

Single database migration utilizes the P12SingleMigrationEG.ini configuration file when running the migration tool to migrate your Enterprise Global file. Split database migration utilizes the file named P12SplitMigrationEG.ini.

Note: If you need to change the default settings in the migration configuration file, see Configure the Migration Tool (Project Server).

To migrate your Enterprise Global data

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1. On the VME desktop, click **Start Migration Process**. This will open a Windows Explorer screen which will display the contents of Drive E.
2. In Windows Explorer, double-click the following folder:

    a. If you have one Project 2003 database, open the **Migrate_Proj_2003_Single_DB** folder.
    b. If you have split your Project Server 2003 databases (Project, open **Migrate_Proj_2003_Split_DB**.

3. Click **2-Run EntGlobal-ResPool Migation** to start the migration tool. This will open up a command prompt window that displays the status of the Enterprise Global data migration as it occurs.
4. When the Enterprise Global migration completes successfully, the End Summary will display "Project Migration successful".

    If an error is encountered, check the migration log file for more information about the problem. You can specific migration log file for this migration is displayed in the first few lines (for example, "Using log file: E:\MigrationLogs\Batch1-20100503-1704.log"). The log can be viewed in a text editor such as Notepad.

Migrate your Project data

After migrating your Project Server 2003 Enterprise Global data to Project Server 2007, you can now migrate your Project Server 2003 project data. For project data migration, the Virtual Migration Environment uses the migration tool utility and calls on a different pre-configured configuration file specifically set to migrate only your project data. The VME automates this process for you.

Single database migration utilizes the P12SingleMigration.ini configuration file when running the migration tool to migrate your project data. Split database migration utilizes the file named P12SplitMigration.ini.

Note: If you need to change the default settings in the migration configuration file, see Configure the Migration Tool (Project Server).

To migrate your project data

1. On the VME desktop, click **Start Migration Process**. This will open a Windows Explorer screen which will display the contents of Drive E.
2. In Windows Explorer, double-click the following folder:

    a. If you have one Project 2003 database, open the **Migrate_Proj_2003_Single_DB** folder.
    b. If you have split your Project Server 2003 databases, open **Migrate_Proj_2003_Split_DB**.

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3. Click **3- Migrate Projects** to start the migration tool. This will open up a command prompt window that displays the status of the project data migration as it occurs.
4. When the project data migration completes successfully, the End Summary will display "Project Migration successful".

   If an error is encountered, check the migration log file for more information about the problem. You can specific migration log file for this migration is displayed in the first few lines (for example, "Using log file: E:\MigrationLogs\Batch1-20100503-1704.log"). The log can be viewed in a text editor such as Notepad.

Attach your Windows SharePoint Services 2.0 content database to the farm

Important:

This step is optional and is only required if you are migrating your Project Server 2003 project workspace data.

After you have restored the content database containing your project workspace data to the VME virtual machine in SQL Server 2005, use the following procedure to attach the copy of the Windows SharePoint Services 2.0 content database to the Project Server 2007 farm in the VME. Once attached, the project workspaces will be migrated to Windows SharePoint Services 3.0.

1. Open a command prompt and navigate to the location of Stsadm.exe. (The default location is <Drive>:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\12\bin.)
2. Run the following Stsadm command to attach a copy of your Windows SharePoint Services 2.0 content database to Windows SharePoint Services 3.0 and upgrade it.

   stsadm.exe -o addcontentdb -url http://<server>:<port> -databasename <WSS v2.0 content database> -databaseserver <DB Server name>

   For example:

   stsadm.exe -o addcontentdb -url http://VME -databasename YourContentDBName databaseserver VME
3. After running Stsadm.exe, you can track the progress of the upgrade by looking at upgrade.log in the ULS log directory. (The default location is c:\program files\common files\Microsoft shared\web server extensions\12\logs\upgrade.log.) Upgrade has finished on a given content database when the following line is included in the log:

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[SPManager] [DEBUG] [<Date> <Time>]: Using cached [SPContentDatabase Name=<DB NAME> Parent=SPDatabaseServiceInstance] NeedsUpgrade value: False.

4. If upgrade fails for any reason (as indicated in the log), the Windows SharePoint Services upgrade process can be restarted. To restart upgrade, run the command **Stsadm.exe -o upgrade** and look at the logs to view the progress. Upgrade has finished when the command prompt returns **Operation completed successfully**.

Note: For more information about migrating a content database to Windows SharePoint Services 3.0, see Migrate Content Database.

Relink project workspace sites

Important:

This step is optional and is only required if you are migrating your Project Server 2003 project workspace data.

After attaching the attaching the Windows SharePoint Services 2.0 content database to the farm to upgrade your project workspace sites to Windows SharePoint Services 3.0, you must relink the project workspace sites to their associated projects. You can do this by using the Project Workspace Site Relinker Tool.

The Project Workspace Relinker tool is located on the root of drive E in the VME.

Run the tool at a command prompt with the following syntax:

RelinkAllWSSSites WSSServerURL ProjectServerURL [**Silent**] [**QuitOnError**]

Option	Description
RelinkAllWSSSites	Calls the executable file.
WSSServerURL	The Windows SharePoint Services Web application that contains project workspaces. This is a required parameter and must be entered in the form of http://*<server>*:*<port>*. Example: http://myWSSserver:80
ProjectServerURL	The Project Web Access URL that contains the reference to the project workspaces to which you are relinking.

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	This is a required parameter and must be entered in the form of http://*<server>*/pwa. Example: http://myProjectserver/pwa
Silent	(Optional.) Progress information for each project is not displayed.
QuitOnError	(Optional.) The application stops if an error is encountered.

For example:

RelinkAllWSSSites http://myWSSserver:80 http://myProjectserver/pwa Silent

You may be required to run the Project Workspace Site Relinker tool multiple times to relink all the sites referenced within your Project Server instance. For example, you may have two Windows SharePoint Services Web applications (http://myWSSServer:80 and http://myWSSServer2:80) that contain project workspaces. In such a case you would run the tool twice — once for each Web application.

For more information about the Project Workspace Site Relinker Tool, see Project Workspace Site Relinker Tool.

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The Post-Migration Phase

After completing the migration phase to migrate your Project Server 2003 data to Project Server 2007, you will need to:

- Run post-migration tasks
- Run migration scripts on your migrated data (optional)

Run Post-Migration Tasks

After you have completed the migration phase to migrate your data from Project Server 2003 to Project Server 2007 in the Virtual Upgrade Environment (VME), there are subsequent post-migration tasks that need to be completed. If these post-migration tasks are not addressed, you data may not upgrade properly to Project Server 2010.

These tasks include:

- Verify whether the migration worked
- Update migrated server settings
- Synchronize the migrated forms-authenticated users with the Project Server 2007 forms authentication store
- Verify the project workspace provisioning settings
- Delete migrated inactive users (optional)
- Fix project currency settings
- Change migrated local Windows accounts
- Update multi-language lookup tables
- Migrated user and permission issues
- Authentication issues
- Issues when migrating master projects

Verify whether the migration worked

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One each of the three instances that the migration tool was run in the Migration phase, verify from the migration tool command line display or from the migration logs that the migration was successful.

If the migration tool had failed at any point, view the contents of the migration log file for more information about the error. Make corrections, import the updated data to the VME, and then re-run the migration tool.

If there is an irrecoverable problem, restore the VME Virtual Machine image to the original configuration, import and restore your Project Server 2003 databases, and then retry migration. Hyper-V manager automatically takes a snapshot of the VME virtual machine when the image is first restored. You can reapply the snapshot (titled "As Shipped") to restore the VME to its original state.

If the migration process appears to have been successful, ensure that the data migrated correctly to Office Project Server 2007 by doing the following tests:

- Verify project data: Open the migrated projects in Project Professional 2007, make changes to them, add enterprise resources, publish them, accept status updates, and so on. The VME includes Project Professional 2007.
- Verify Project Web Access data: Open Project Web Access in the VME to connect to your data. View your data to verify that it looks correct.

We highly recommend that you have a migration checklist specific to your needs and that you test those items after migration.

Update migrated server settings

As explained in Data not Migrated to Project Server 2007, all data from Project Server 2003 may not be migrated to Office Project Server 2007. Therefore we highly recommend that you go over all the Office Project Server 2007 server settings and make sure they are as you want them to be. Some specific areas are listed below:

1. **Security settings**: There are some security permissions (global and category) that are new in Office Project Server 2007. These permissions may not get migrated. You may want to review each one and make a decision on whether to give users that permission. For more information, see Security and protection for Office Project Server 2007.

2. **Project Web Access view definitions**: The "Filter by" and "Group by" clauses are not migrated from Project Server 2003. You may need to re-create these. Also, some Project Web Access view fields do not migrate. You may want to make sure that all the fields of interest to you are available in the migrated views.

3. **Merge and rename similar security groups, categories, and templates and Project Web Access view definitions**: If there is a naming conflict while migrating security templates, view definitions, or security groups or categories, the migration tool attaches a prefix or suffix to the

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conflicting names. This action is taken to preserve both Project 2007 entities and Project 2003 entities in one system. Then you can select which one to keep or elect to merge them, as appropriate. We recommend that you resolve them so that end users do not become confused.

Synchronize the migrated forms-authenticated users with the Project Server 2007 forms authentication store

This is a required step to make sure that the migrated forms-authenticated users work in Office Project Server 2007. For more information, see Configure SQL Membership Provider forms authentication for Project Server 2007.

For more information about Project Server authentication changes from Project Server 2003 to Project Server 2010, see Claims Authentication Overview.

Verify the project workspace provisioning settings

The migration tool will reset the **Automatically Provision** option in the Project Workspace Provisioning Settings page of Server Settings to **Manually Create a workspace for each project** in Office Project Server 2007. This setting ensures that the migration process does not provision duplicate workspaces for projects that may already have workspaces that are yet to be migrated.

After running the migration tool, check the **Project Workspace Provisioning** settings located in the **Operational Policies** section of Project Web Access Server Settings. Verify that the **Site URL** and the **Automatic Provisioning** options are configured correctly per your needs. If you want Office Project Server 2007 to automatically create a workspace when a project is published, reset the **Automatically Provision** option to **Automatically create a workspace for the project when a project is published** in Office Project Server 2007 after the migration tool is run.

Delete migrated inactive users (optional)

The Manage Groups page in Project Server 2003 does not display inactive users by default. But in Office Project Server 2007, inactive users are displayed by default. Therefore, after the migration process (which migrates the inactive users as well), you may see extra users in the Manage Groups Project Web Access page in Office Project Server 2007.

You can permanently delete the inactive users if needed.

To permanently delete the inactive users:

1. In Project Web Access, click **Server Settings**.
2. In the **Database Administration** section, click **Delete Enterprise Objects**.

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3. In the Delete Enterprise Objects page, in the **What do you want to delete from Project Server** section, select **Resources and Users**.
4. In the list of users that displays, select the users you want to permanently delete, and then click Delete.

Fix project currency settings

It is a known issue that project currencies are not migrated correctly. Run the following SQL query on the Project Server 2003 project tables database to get a list of projects and their currencies. This information can be used to manually correct the currency settings post migration.

```
select PROJ_NAME, PROJ_OPT_CURRENCY_SYMBOL
 from dbo.MSP_PROJECTS where PROJ_TYPE in (0, 1, 2)
```

Change migrated local Windows accounts

If you had any local Windows accounts (for example, ComputerName\Brad Joseph), and the computer names are no longer valid, make sure you go to Project Web Access Server Settings and use the **Manage Users** options to edit those accounts so that they are valid.

Update multi-language lookup tables

Multilanguage lookup tables are not updated correctly after migration. Run the following SQL statements on the Office Project Server 2007 Published database to correct this problem.

```
DELETE FROM dbo.MSP_LOOKUP_TABLE_LANGUAGES WHERE LT_UID NOT IN (SELECT LT_UID FROM dbo.MSP_LOOKUP_TABLES)

DELETE FROM dbo.MSP_LOOKUP_TABLE_MASK_VALUES WHERE LT_UID NOT IN (SELECT LT_UID FROM dbo.MSP_LOOKUP_TABLES)

DELETE FROM dbo.MSP_LOOKUP_TABLE_MASK_STRUCTURES WHERE LT_UID NOT IN (SELECT LT_UID FROM dbo.MSP_LOOKUP_TABLES)

DELETE FROM dbo.MSP_LOOKUP_TABLE_VALUES WHERE LT_UID NOT IN (SELECT LT_UID FROM dbo.MSP_LOOKUP_TABLES)

DELETE FROM dbo.MSP_LOOKUP_TABLE_STRUCTURES WHERE LT_UID NOT IN (SELECT LT_UID FROM dbo.MSP_LOOKUP_TABLES)
```

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This script (Script 10) is included in the VME in the Verification Scripts folder. Note that running this script will make corrective action to the Project Server2007 data.

If you are using Microsoft Office Portfolio Server 2007 with Project Server 2007, it is especially important to run these SQL statements to update the tables. If the statements are not run, you may encounter a "GeneralUnhandledException" error when performing an export from Portfolio Server 2007 to Project Server 2007. The error would look like this and would appear in the ULS logs:

> PSI: LookupTable.ReadLookupTablesMultiLang Undefined Attibutes: PSError: GeneralUnhandledException Underined attributes list: System.Data.ConstraintException: Failed to enable constraints. One or more rows contain values violating non-null, unique, or foreign-key constraints….

Migrated user and permission issues

After migration (especially in localized builds), your users may not have certain expected permissions in the migrated Office Project Server 2007 installation. For example, imagine that you were assigned your permissions through the administrator template, but you cannot view timesheets. There are several reasons that such a situation might occur:

1. In Project Server 2003, a permission is denied at the organization level. You can verify this by checking your Project Web Access permissions to see whether any permissions are disabled and whether they are the cause of your problem.
2. To check your Project Web Access Permissions
   i) In the Project Web Access home page, in the left pane click **Server Settings**.
   ii) In Server settings, in the **Security** section, click **Project Web Access Permissions**.
3. There are some permissions that are new in Office Project Server 2007. These permissions may not be mapped correctly during migration. You can check the Security documentation for a list of these permissions to see whether they are the cause of your problem. For more information on Office Project Server 2007 permissions, see Security and protection for Office Project Server 2007 (*http://technet.microsoft.com/en-us/library/cc197499.aspx)*.

Authentication issues

Project Server authentication is used in Project Server 2003, but it is not supported in Office Project Server 2007. When you migrate Project Server authenticated users to Office Project Server 2007, the user accounts are reset, because the forms authentication mechanism in Office Project Server 2007 is architecturally different from the Project Server authentication used in Project Server 2003. You will not see these users listed in the Project Web Access Server Settings Manage Users page, or the **User Authentication** section for the user will not appear. However, you can still edit these migrated users in the Project Web Access Resource Center.

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Issues when migrating master projects

When you are migrating master projects and their associated subprojects from Project Server 2003 to Office Project Server 2007, the following two scenarios will cause the project migration to fail:

- A subproject migrated after its master project. (You can correct the order of migration in the migration configuration file.)
- A project that is a subproject to two different master projects. (Such an arrangement is allowed in Project Server 2003, but not in Office Project Server 2007). The migration for this project will fail when it attempts to publish the project.

Run scripts on your migrated data

You can optionally run the following migration scripts on your migrated data:

- Run Migration Script 5 to capture a Post-Migration Project Server 2007 data snapshot
- Run Migration Script 6 to capture all Project Server 2007 projects with associated project workspaces
- Run Migration Script 7 to compare Project Server 2003 and Project Server 2007 projects data validation snapshots
- Run Migration Script 8 to compare Project Server 2003 and Project Server 2007 projects data validation snapshots
- Run Migration Script 9 to validate your Project Server 2007 data for known issues that can cause migration to Project Server 2010 to fail

Run Migration Script 5 to capture a Post-Migration Project Server 2007 data snapshot

Run Migration Script 5 to take a data snapshot of the Project Server 2007 database that contains your migrated Project Server 2003 data. The script will take a data snapshot of from the Projects and Tasks tables and then store the information in a table created dynamically within the script. The stored results from this script can be compared later to the results from the pre-migration snapshot taken of your Project Server 2003 data to verify if all data had migrated successfully.

To run Script 5:

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1. On the VME desktop, click **Start Migration Process**. This will open a Windows Explorer screen which will display the contents of Drive E.
2. In Windows Explorer, double-click the following folder:

    a. If you have one Project Server 2003 database, open the **Migrate_Proj_2003_Single_DB** folder.
    b. If you have split your Project Server 2003 databases, open **Migrate_Proj_2003_Split_DB**.

3. Open the Verification Scripts folder, and then click VME Script 5.sql. This will open Microsoft SQL Server Management Studio and will display Script 5.
4. Click **Execute** to run the script.
5. The results from the script will save to the **ProjectServer_Migration_Data_Validation** database in the table named **dbo.Migration_PS2007_Data_Validation_Snapshot**.

Note:

You can view the code for Migration Script 5 in the Migration Scripts chapter in this document.

Run Migration Script 6 to capture all Project Server 2007 projects with associated project workspaces

Run Script 6 to list all projects in the Project Server 2007 Published database that have an associated project workspace site. This data is saved to a table in the ProjectServer_Migration_Data_Validation database. The data can be compared to pre-migration results from Script 4 to check if all Project Server 2003 projects with associated workspaces have been migrated and relinked.

To run Script 6:

1. On the VME desktop, click **Start Migration Process**. This will open a Windows Explorer screen which will display the contents of Drive E.
2. In Windows Explorer, double-click the following folder:

    a. If you have one Project Server 2003 database, open the **Migrate_Proj_2003_Single_DB** folder.
    b. If you have split your Project Server 2003 databases, open **Migrate_Proj_2003_Split_DB**.

3. Open the Verification Scripts folder, and then click VME Script 6.sql. This will open Microsoft SQL Server Management Studio and will display Script 6.
4. Click **Execute** to run the script.
5. The results from the script will save to the **ProjectServer_Migration_Data_Validation** database in the table named **dbo.Migration_PS2007_ProjectWorkspaces**.

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Note:

You can view the code for Migration Script 6 in the Migration Scripts chapter in this document.

Run Migration Script 7 to compare Project Server 2003 and Project Server 2007 projects data validation snapshots

Run Script 7 to compares the data snapshot of the pre-migration Project Server 2003 data and the post-migration Project Server 2007 data. It does this by comparing the data validation snapshots created by Script 3 and Script 5. This script will:

- List the projects not migrated to the draft database (existing projects in Project Server 2003 but not in the Project Server 2007 Published database).
- List the distinct project names with differences in specific fields.
- List he distinct project names and tasks with differences in specific fields.
- Adjust to parameters by using variable containing the % of difference between Project Server 2003 and Project Server 2007 data.

To run Script 7:

1. On the VME desktop, click **Start Migration Process**. This will open a Windows Explorer screen which will display the contents of Drive E.
2. In Windows Explorer, double-click the following folder:
   a. If you have one Project Server 2003 database, open the **Migrate_Proj_2003_Single_DB** folder.
   b. If you have split your Project Server 2003 databases, open **Migrate_Proj_2003_Split_DB**.
3. Open the Verification Scripts folder, and then click VME Script 7.sql. This will open Microsoft SQL Server Management Studio and will display Script 7.
4. Click **Execute** to run the script.

Note:

You can view the code for Migration Script 7 in the Migration Scripts chapter in this document.

Run Migration Script 8 to list projects with unlinked workspaces

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Run Script 8 to list Project Server 2007 projects need to be relinked to their project workspaces. This script compares the result from Script 4 (pre-migration Project Server 2003 projects with associated workspaces) and Script 6 (post-migration Project Server 2007 projects with associated workspaces). The data for both are stored in the dbo.Migration_PS2003_ProjectWorkspaces and dbo.Migration_PS2007_ProjectWorkspaces tables in the ProjectServer_Migration_Data_Validation database.

To run Script 8:

1. On the VME desktop, click **Start Migration Process**. This will open a Windows Explorer screen which will display the contents of Drive E.
2. In Windows Explorer, double-click the following folder:

    a. If you have one Project Server 2003 database, open the **Migrate_Proj_2003_Single_DB** folder.
    b. If you have split your Project Server 2003 databases, open **Migrate_Proj_2003_Split_DB**.

3. Open the Verification Scripts folder, and then click VME Script 8.sql. This will open Microsoft SQL Server Management Studio and will display Script 8.
4. Click **Execute** to run the script.
5. The results will display the projects that need to be relinked to their project workspaces.

Note:

You can view the code for Migration Script 8 in the Migration Scripts chapter in this document.

Run Migration Script 9 to validate your Project Server 2007 data for known issues that can cause migration to Project Server 2010 to fail

Run Script 9 to run a data validation check on your Project Server 2007 databases to look for known conditions that may cause an upgrade to Project Server 2010 to fail. Script 9 will check for the following conditions:

- Project Server 2007 is updated to Service Pack 2 and the October 2009 cumulative update.
- Projects not saved and published since the installation of Service Pack 2 and the October 2009 Cumulative Update.
- Lookup table using names that are reserved in Project Server 2010.
- Custom field names that are reserved in Project Server 2010.
- Office Web Components (OWC) views in Project Server 2007 that need to be migrated to Excel Services in Project Server 2010.
- User accounts with Forms Authenticated login names.

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- Team names with no associated lookup table or a value.
- Project Web Access Portfolio Analyzer OWC views in Project Server 2003 that may need to be migrated to Project Server 2007.

To run Script 9:

1. On the VME desktop, click **Start Migration Process**. This will open a Windows Explorer screen which will display the contents of Drive E.
2. In Windows Explorer, double-click the following folder:

   a. If you have one Project Server 2003 database, open the **Migrate_Proj_2003_Single_DB** folder.
   b. If you have split your Project Server 2003 databases, open **Migrate_Proj_2003_Split_DB**.

3. Open the Verification Scripts folder, and then click VME Script 9.sql. This will open Microsoft SQL Server Management Studio and will display Script 9.
4. Click **Execute** to run the script.
5. The results will display. Try to resolve any issues that are found before planning to migrate your data to Project Server 2010.

You can use Project Professional 2007 (included in the VME) to try to resolve some of data issues that are detected in this script.

Note:

You can view the code for Migration Script 9 in the Migration Scripts chapter in this document.

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Plan to Upgrade your Data to Project Server 2010

After you have completed the Virtual Migration Environment (VME) Post-migration phase, you should have successfully migrated your Project Server 2003 data to Project Server 2007 Service Pack 2 (SP2). You can now move your Project Server 2007 databases to your Project Server 2010 environment to upgrade your data to Project Server 2010.

Migrating from Project Server 2003 to Project Server 2010 through the VME is a three part process:

1. Migrate your data from Project Server 2003 to Project Server 2007 (occurs on the Virtual Migration Environment).
2. Move your data from VME to the Project Server 2010 farm database server.
3. Upgrade your data from Project Server 2007 to Project Server 2010.

The Virtual Migration Environment only migrates your data from Project Server 2003 to Project Server 2007. To complete your upgrade to Project Server 2010, you must use the Database attach upgrade method to upgrade your Project Server 2007 databases to Project Server 2010. This requires you to have an installation of Project Server 2010 in your organization.

For more information about installing Project Server 2010, see Deploy Project Server 2010 to a Server Farm Environment.

The topics in this article include:

- Database attach upgrade
- Create database backups
- Migrate to Project Server 2010

Database Attach Upgrade

Migrating your data from the VME to Project Server 2010 only allows you to use the database attach upgrade method. A database attach upgrade lets you "attach" restored copies of your Office Project Server 2007 databases to a new Project Server 2010 installation. Office Project Server 2007 farm databases are backed up and then restored on the Microsoft SQL Server hosting the Project Server 2010 databases, and the new Project Server 2010 farm points to these restored databases when the Microsoft Project Web App instance is created. When you connect to the databases from the new Project Server 2010 instance, the databases are upgraded to Project Server 2010.

There are two variations of the database attach upgrade:

- Database attach full: Upgrades the four Office Project Server 2007 databases and the content database that contains the Project Web App site data. Use this method if you also want to migrate your project workspace data.

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- Database attach core: Upgrades the four Office Project Server 2007 databases only. Use this method if you do not want to migrate your project workspace data.

A database attach full upgrade will require the following databases:

- ProjectServer_Archive
- ProjectServer_Draft
- ProjectServer_Published
- ProjectServer_Reporting
- Windows SharePoint Services 3.0 content database containing the project workspace data

A database attach core upgrade will require the following databases:

- ProjectServer_Archive
- ProjectServer_Draft
- ProjectServer_Published
- ProjectServer_Reporting

For more information about Database Attach upgrade, see Project Server 2010 Upgrade Overview.

Create database backups

You will need to create database backups of the following databases in SQL Server 2005 on the VME:

- ProjectServer_Archive
- ProjectServer_Draft
- ProjectServer_Published
- ProjectServer_Reporting
- Windows SharePoint Services 3.0 content database containing the project workspace data (only required if are doing a database attach full upgrade)

Use the following procedure to create backup of your required databases in SQL Server 2005 on the VME:

To back up a database in SQL Server 2005

1. In the VME virtual machine environment, click **Start**, point to **All Programs**, point to **Microsoft SQL Server 2005**, and then click **SQL Server Management Studio**.

2. In the **Connect to Server** box, click **Connect**.

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3. In SQL Server Management Studio, in Object Explorer, expand **Databases**. Right-click the database that you want to back up, click **Tasks**, and then click **Back Up**. The **Back Up Database** dialog box appears.

4. In the **Source** area, in the **Database** box, verify the database name.

5. In the **Backup type** box, select **Full**.

6. Under **Backup component**, select **Database**.

7. In the **Backup set** area, in the **Name** text box, either accept the default backup set name that is suggested or type a different name for the backup set.

8. In the **Destination** area, select **Disk**, and then specify a destination to which you want to save the backup file .

9. Click **OK** to start the backup process.

Repeat the previous procedure to back up the remaining required databases.

Migrating to Project Server 2010

After you have created database backups of your required databases, move the copies from the VME to the SQL Server hosting your Project Server 2010 databases. If the VME virtual machine is not on the network, you can copy the files through the shared drive created to drive E when you loaded the Project Server 2003 data from the VM host to the VME virtual machine.

Use the procedures in one of the following documents (depending on the type of migration you want to do) to migrate your Office Project Server 2007 databases to Project Server 2010 to complete your migration from Project Server 2003:

- For information about upgrading to Project Server 2010 using the database attach full upgrade method, see Database Attach Full Upgrade to Project Server 2010.
- For information about upgrading to Project Server 2010 using the database attach core upgrade method, see Database Attach Core Upgrade to Project Server 2010.

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Migration Scripts

Migration Script 1:

```
-----------------------------------------------------------------------
--------
/* Pre-Migration Steps from Project 2003 SP3 to Project 2007 SP2
-----------------------------------------------------------------------
-------*/
USE Project2003SourceDB

-----------------------------------------------------------------------
--------
/* Check Project 2003 Version: Must be SP3 = 11.3
-----------------------------------------------------------------------
-------*/
select
replace(str(WADMIN_VERSION_MAJOR)+'.'+str(WADMIN_VERSION_MINOR),'
','')
as 'Project Server Version SP3 Must Be 11.3 or Higher. If not, upgrade
your 2003 database to SP3'
from dbo.MSP_WEB_ADMIN
go
-----------------------------------------------------------------------
--------
/* Display the projects checked out?
-----------------------------------------------------------------------
-------*/
select PROJ_NAME AS 'List of Projects Checked-out: Must be Fixed'
from dbo.MSP_PROJECTS where PROJ_CHECKEDOUT = 1 and PROJ_TYPE in (0,
1)
go
-----------------------------------------------------------------------
--------
/* Display the projects Externally Edited?
-----------------------------------------------------------------------
-------*/
select PROJ_NAME AS 'List of Projects Externally Edited: Must be
Fixed'
from dbo.MSP_PROJECTS where (PROJ_EXT_EDITED = 1 or
RESERVED_BINARY_DATA is null) and PROJ_TYPE in (0, 1)
go
-----------------------------------------------------------------------
--------
/* Determining whether projects have status updates pending
-----------------------------------------------------------------------
-------*/
select distinct PROJ_NAME AS 'List of Projects with Status Updates
Pending: Must be Fixed'
from dbo.MSP_WEB_ASSIGNMENTS wa, dbo.MSP_WEB_TRANSACTIONS trans,
```

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```
dbo.MSP_WEB_PROJECTS wp where wa.WPROJ_ID = wp.WPROJ_ID
and trans.WASSN_ID = wa.WASSN_ID and trans.WTRANS_STATE in (0, 1, 2)
go
-----------------------------------------------------------------------
--------
/* Determining whether there are duplicate Enterprise Resources
-----------------------------------------------------------------------
-------*/
select res_uid, res_name AS 'Duplicate Enterprise Resources: Must be
Fixed' from msp_resources
where res_name in (select distinct r1.RES_NAME from dbo.MSP_RESOURCES
r1
inner join dbo.MSP_RESOURCES r2 on (r1.RES_NAME = r2.RES_NAME and
r1.PROJ_ID = r2.PROJ_ID)
where r1.PROJ_ID = 1
and r1.RES_UID != r2.RES_UID) and proj_id = 1 order by res_name asc

go
-----------------------------------------------------------------------
--------
/* Determining whether there are duplicate Enterprise Resources
Check for duplicate enterprise resources used in your projects
-----------------------------------------------------------------------
-------*/
select  distinct res_name AS 'Duplicate Enterprise Resources Used in
Projects: Must be Fixed', res_euid
from msp_resources
where res_name in (select distinct r1.RES_NAME from dbo.MSP_RESOURCES
r1
inner join dbo.MSP_RESOURCES r2 on (r1.RES_NAME = r2.RES_NAME
and r1.PROJ_ID = r2.PROJ_ID) where r1.PROJ_ID = 1
and r1.RES_UID != r2.RES_UID) and proj_id <> 1 and res_euid is not
null
order by res_name, res_euid asc
go

-----------------------------------------------------------------------
--------
/* Enterprise Global template should not be externally edited
-----------------------------------------------------------------------
-------*/
select PROJ_NAME 'Enterprise Global Template Externally Edited: Must
be Fixed' from dbo.MSP_PROJECTS
where (PROJ_EXT_EDITED = 1 or RESERVED_BINARY_DATA is null)
and PROJ_TYPE = 2

go
-----------------------------------------------------------------------
--------
/* Determining whether the Enterprise Global template is checked out
-----------------------------------------------------------------------
-------*/
```

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```
select count(*) AS 'Enterprise Global Template Checked Out: Must be
Fixed' from dbo.MSP_PROJECTS
where PROJ_CHECKEDOUT = 1 and PROJ_TYPE = 2

go
-----------------------------------------------------------------------
--------
/* Determining whether the Enterprise Global template is locked
-----------------------------------------------------------------------
-------*/
select cast(isnull(PROJ_LOCKED, '0') as int) AS 'Enterprise Global
Template Is Locked: Must be Fixed'
 from dbo.MSP_PROJECTS where PROJ_TYPE = 2

go
-----------------------------------------------------------------------
-----------------------------------------
/* Determining whether the default language on the Web tables database
and Project tables database should match
-----------------------------------------------------------------------
-----------------------------------------*/
select WADMIN_DEFAULT_LANGUAGE As 'The Deafault Language on Web and
Project Tables should Match: Must be Fixed'
from dbo.MSP_WEB_ADMIN

go
-----------------------------------------------------------------------
-----------------------------------------
/* Determining whether a resource has a comma in its name
-----------------------------------------------------------------------
-----------------------------------------*/
select RES_NAME 'List of Resources With a Comma in the Name: Not
Allowed: Must be Fixed'
from MSP_RESOURCES where RES_NAME is not null and charindex(',',
RES_NAME) > 0

go
-----------------------------------------------------------------------
-----------------------------------------
/* Determining whether required enterprise resource custom fields do
not have values
-----------------------------------------------------------------------
-----------------------------------------*/
declare @eglobal_proj_id int
set @eglobal_proj_id = (select PROJ_ID from dbo.MSP_PROJECTS where
PROJ_TYPE = 2)

select
   r1.RES_NAME as 'Resource Name',
   ast1.AS_VALUE as 'Custom Field Name with NO VALUE: Must be Fixed'
from
   dbo.MSP_RESOURCES r1
```

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```
   inner join dbo.MSP_CODE_FIELDS cf1 on (r1.RES_UID =
cf1.CODE_REF_UID)
   inner join dbo.MSP_FIELD_ATTRIBUTES fa1 on (cf1.CODE_FIELD_ID =
fa1.ATTRIB_FIELD_ID)
   inner join dbo.MSP_ATTRIBUTE_STRINGS ast1 on (fa1.AS_ID =
ast1.AS_ID)
   inner join dbo.MSP_OUTLINE_CODES oc3 on (cf1.CODE_UID =
oc3.CODE_UID
   and oc3.PROJ_ID = @eglobal_proj_id)
   left join dbo.MSP_OUTLINE_CODES oc1 on (oc1.CODE_UID = cf1.CODE_UID
   and cf1.CODE_FIELD_ID = oc1.OC_FIELD_ID and oc1.PROJ_ID =
@eglobal_proj_id)
   left join (
      select
         oc.CODE_UID,
         fa.ATTRIB_FIELD_ID as OC_FIELD_ID,
         @eglobal_proj_id as PROJ_ID
      from
         dbo.MSP_OUTLINE_CODES oc
         inner join dbo.MSP_FIELD_ATTRIBUTES fa on (fa.PROJ_ID =
oc.PROJ_ID
         and fa.ATTRIB_VALUE = oc.OC_FIELD_ID and fa.ATTRIB_ID = 212)
      where
         oc.PROJ_ID = @eglobal_proj_id
         and fa.PROJ_ID = @eglobal_proj_id
         and fa.ATTRIB_ID = 212
   ) as oc2 on (oc2.CODE_UID = cf1.CODE_UID and cf1.CODE_FIELD_ID =
oc2.OC_FIELD_ID
   and oc2.PROJ_ID = @eglobal_proj_id)
where
   r1.PROJ_ID = 1
   and cf1.proj_id = 1
   and fa1.PROJ_ID = @eglobal_proj_id
   and fa1.ATTRIB_ID = 206
   and ast1.PROJ_ID = @eglobal_proj_id
   and oc3.PROJ_ID = @eglobal_proj_id
   and oc1.CODE_UID is null
   and oc2.CODE_UID is null
order by
   r1.RES_NAME,
   ast1.AS_VALUE

go
---------------------------------------------------------------------
-----------------------------------------
/* Determining whether a resource custom field has a value which is
not in the lookup table definition
---------------------------------------------------------------------
-----------------------------------------*/
declare @eglobal_proj_id int
set @eglobal_proj_id = (select PROJ_ID from dbo.MSP_PROJECTS where
PROJ_TYPE = 2)
```

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```
select
   r1.RES_NAME AS 'Resource Name',
   ast1.AS_VALUE AS 'Custom Field Name with Invalid Value: Must be
Fixed'
from
   dbo.MSP_RESOURCES r1
   inner join dbo.MSP_CODE_FIELDS cf1 on (r1.RES_UID =
cf1.CODE_REF_UID)
   inner join dbo.MSP_FIELD_ATTRIBUTES fa1 on (cf1.CODE_FIELD_ID =
fa1.ATTRIB_FIELD_ID)
   inner join dbo.MSP_ATTRIBUTE_STRINGS ast1 on (fa1.AS_ID =
ast1.AS_ID)
   left join dbo.MSP_OUTLINE_CODES oc1 on (oc1.CODE_UID = cf1.CODE_UID
   and cf1.CODE_FIELD_ID = oc1.OC_FIELD_ID and oc1.PROJ_ID =
@eglobal_proj_id)
   left join (
      select
         oc.CODE_UID,
         fa.ATTRIB_FIELD_ID as OC_FIELD_ID,
         @eglobal_proj_id as PROJ_ID
      from
         dbo.MSP_OUTLINE_CODES oc
         inner join dbo.MSP_FIELD_ATTRIBUTES fa on (fa.PROJ_ID =
oc.PROJ_ID
         and fa.ATTRIB_VALUE = oc.OC_FIELD_ID and fa.ATTRIB_ID = 212)
      where
         oc.PROJ_ID = @eglobal_proj_id
         and fa.PROJ_ID = @eglobal_proj_id
         and fa.ATTRIB_ID = 212
   ) as oc2 on (oc2.CODE_UID = cf1.CODE_UID and cf1.CODE_FIELD_ID =
oc2.OC_FIELD_ID
   and oc2.PROJ_ID = @eglobal_proj_id)
where
   r1.PROJ_ID = 1
   and cf1.proj_id = 1
   and cf1.code_uid is not null
   and fa1.PROJ_ID = @eglobal_proj_id
   and fa1.ATTRIB_ID = 206
   and ast1.PROJ_ID = @eglobal_proj_id
   and oc1.CODE_UID is null
   and oc2.CODE_UID is null
union
select
   r1.RES_NAME,
   ast1.AS_VALUE
from
   dbo.MSP_RESOURCES r1
   inner join dbo.MSP_MV_FIELDS cf1 on (r1.RES_UID = cf1.CODE_REF_UID)
   inner join dbo.MSP_FIELD_ATTRIBUTES fa1 on (cf1.CODE_FIELD_ID =
fa1.ATTRIB_FIELD_ID)
```

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```
   inner join dbo.MSP_ATTRIBUTE_STRINGS ast1 on (fa1.AS_ID =
ast1.AS_ID)
   left join dbo.MSP_OUTLINE_CODES oc1 on (oc1.CODE_UID = cf1.CODE_UID
   and (cf1.CODE_FIELD_ID - 76) = oc1.OC_FIELD_ID and oc1.PROJ_ID =
@eglobal_proj_id)
   left join (
      select
         oc.CODE_UID,
         fa.ATTRIB_FIELD_ID as OC_FIELD_ID,
         @eglobal_proj_id as PROJ_ID
      from
         dbo.MSP_OUTLINE_CODES oc
         inner join dbo.MSP_FIELD_ATTRIBUTES fa on (fa.PROJ_ID =
oc.PROJ_ID
         and fa.ATTRIB_VALUE = oc.OC_FIELD_ID and fa.ATTRIB_ID = 212)
      where
         oc.PROJ_ID = @eglobal_proj_id
         and fa.PROJ_ID = @eglobal_proj_id
         and fa.ATTRIB_ID = 212
   ) as oc2 on (oc2.CODE_UID = cf1.CODE_UID and (cf1.CODE_FIELD_ID -
76) = oc2.OC_FIELD_ID
   and oc2.PROJ_ID = @eglobal_proj_id)
where
   r1.PROJ_ID = 1
   and cf1.proj_id = 1
   and cf1.code_uid is not null
   and fa1.PROJ_ID = @eglobal_proj_id
   and fa1.ATTRIB_ID = 206
   and ast1.PROJ_ID = @eglobal_proj_id
   and oc1.CODE_UID is null
   and oc2.CODE_UID is null
order by
   r1.RES_NAME,
   ast1.AS_VALUE

go
-----------------------------------------------------------------------
-----------------------------------------
/* Determining whether Enterprise resources are externally edited
-----------------------------------------------------------------------
-----------------------------------------*/
select count(*) AS 'Number of Enterprise Resources Externally Edited:
Must be Fixed'
from dbo.MSP_RESOURCES
where PROJ_ID = 1 and  cast(EXT_EDIT_REF_DATA as varchar(1)) = '1'

go
-----------------------------------------------------------------------
-----------------------------------------
/* Determining whether There are Enterprise Resource Duration Custom
Fields with Value Lists
```

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```
-----------------------------------------------------------------------
----------------------------------------*/
declare @proj_id int
set @proj_id = (select proj_id from msp_projects where proj_type = 2)
select ats.as_value as 'Enterprise Resource Duration Custom Field with
Value Lists: Must be Fixed'
from msp_attribute_strings ats
inner join msp_field_attributes fa on (fa.proj_id = ats.proj_id and
fa.as_id = ats.as_id)
where fa.attrib_id = 206 and fa.proj_id = @proj_id
and fa.attrib_field_id >= 205521382 and fa.attrib_field_id <=
205521391
and exists (select * from msp_field_attributes fa2
where fa2.proj_id = fa.proj_id and fa2.attrib_field_id =
fa.attrib_field_id
and fa2.attrib_id = 210)

go
-----------------------------------------------------------------------
----------------------------------------
/* Determining whether Enterprise Resource Duration custom fields
contain valid values
-----------------------------------------------------------------------
----------------------------------------*/
select r.res_name AS 'Resource Name'
, mas.as_value AS 'Enterprise Resource Duration Custom Field with
Invalid Value: Must be Fixed'
 from msp_resources r
inner join msp_duration_fields df on (df.dur_ref_uid = r.res_euid and
df.proj_id = r.proj_id)
inner join msp_projects p on (p.proj_type = 2)
inner join msp_field_attributes fa on (fa.proj_id = p.proj_id and
fa.attrib_field_id = df.dur_field_id)
inner join msp_attribute_strings mas on (mas.proj_id = p.proj_id and
fa.as_id = mas.as_id)
where (dur_value < 0 or dur_value > 34689600) and df.proj_id = 1 and
p.proj_type = 2
and fa.attrib_id = 206

go
```

Migration Script 2:

```
/*-----------------------------------------------------------------------
----------------------------------------
Script A2: Project Server 2003 Database Profile
This script reads the Project Server 2003 database (Project Tables and
View Tables may be in the same or separate database)
-----------------------------------------------------------------------
----------------------------------------*/
use <Enter "Project Tables" database name>
```

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```
--Total size of DB
exec sp_spaceused

--Number of projects in the database
select count(*) as 'Total Number of Projects in 2003' from
msp_projects

--Number of inserted projects
select count(*) as 'Number of Inserted Projects in 2003'
  from MSP_TEXT_FIELDS where TEXT_FIELD_ID = 188743706

--Number of cross-project links
select count(*) as 'Number of cross-project links in 2003'
  from MSP_TEXT_FIELDS
  where TEXT_FIELD_ID = 239075346 or TEXT_FIELD_ID = 239075347

--Number of total tasks, assignments in the system
select count(*) as 'Number of tasks in 2003' from msp_tasks
select count(*) as 'Number of assignments in 2003' from
msp_assignments

--Number of Enterprise resources (in ResGlobal)
select count(*) as 'Number of Enterprise Resources in 2003'
  from msp_resources where proj_id = 1 and res_name is not null

--Number of custom fields in use
select count(*) as 'Number of Custom Fields in use in 2003'
  from msp_field_attributes
  where attrib_id = 206 and proj_id in (select proj_id
  from msp_projects where proj_type =2 )

/*----------------------------------------------------------------------
---------------------------------------
This script reads the Project Server 2003 database (Project Tables and
View Tables may be in the same or separate database)
----------------------------------------------------------------------
---------------------------------------*/

use <Enter "Web Tables" database name>

--Total size of DB
exec sp_spaceused

--Number of Project Authenticated users, Windows authenticated users
select count(*) as 'Number of Project Authenticated users in 2003'
  from MSP_WEB_RESOURCES
  where WRES_USE_NT_LOGON = 0
  and WRES_CAN_LOGIN <>0 and WRES_COUNT_LICENSE <> 0
select count(*) as 'Number of Windows Authenticated users in 2003'
  from MSP_WEB_RESOURCES
  where WRES_USE_NT_LOGON <> 0
```

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```
  and WRES_CAN_LOGIN <>0 and WRES_COUNT_LICENSE <> 0

--Number of security groups,security categories
select count(*) as 'Number of Security Groups in 2003'
  from MSP_WEB_SECURITY_GROUPS
select count(*) as 'Number of Security Categories in 2003'
  from MSP_WEB_SECURITY_CATEGORIES

--Is there any Windows SharePoint Services integration ?
select count(*)  as 'Is there any Windows SharePoint Services
Integration in 2003?'
  from msp_web_admin where WADMIN_CURRENT_STS_SERVER_ID <> -1

--Number of linked issues, risks, documents
-- (indicates how much Windows SharePoint Services integration is
used)
select count(*) as
  'Number of linked Windows SharePoint Services issues/risks/documents
in 2003'
  from MSP_WEB_OBJECT_LINKS

--Number of custom Project Web Access views
select count(*) as 'Number of customer Projet Web Access views in
2003'
  from MSP_WEB_VIEW_REPORTS where WVIEW_ID > 100
```

Migration Script 3:

```
/*-----------------------------------------------------------------------
-------------------
-- Script A3: Capture Data Validation Snapshot for Project Server 2003
---- Updated Jan 12, 2010
-- This script:
-- 1. drops the PS2003 Validation Snapshot table if it exists from the
Migration Validation
      Database previously created
   2. Reads the Project Server 2003 SP2a database to extract Projects
and Tasks information
   3. Stores the output dataset into a new table created in the
Migration Validation
      Database
   This script requires to set the database names of the Migration
Validation Database and the
   Project Server 2003 database in the USE statements
 -----------------------------------------------------------------------
-------------------------*/
USE ProjectServer_Migration_Data_Validation
IF EXISTS (SELECT id FROM dbo.sysobjects WHERE id =
OBJECT_ID(N'MIgration_PS2003_Data_Validation_Snapshot')
```

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```
AND OBJECTPROPERTY(id, N'IsUserTable') = 1)
DROP TABLE dbo.Migration_PS2003_Data_Validation_Snapshot
GO
USE [Project2003SourceDB]
GO
SET TRANSACTION ISOLATION LEVEL READ UNCOMMITTED
GO
SELECT p11p.proj_name as N'Project Name',
        p11p.proj_id as 'Project ID',
        p11p.proj_version as N'Project Version',
        p11p.proj_info_start_date as N'Proj Start Date',
        p11p.proj_info_finish_date as N'Proj Finish Date',
        p11p.proj_info_status_date as N'Proj Status Date',
        p11p.proj_info_cal_name as N'Proj Calendar Name',
        p11p.proj_type as N'Proj Type',
       p11t.task_name as N'Task Name',
       p11t.task_uid as N'Task UID',
       p11t.task_type as N'Task Type',
       p11t.task_start_date as N'Task Start Date',
       p11t.task_finish_date as N'Task Finish Date',
           p11t.task_act_start as N'Task Act Start',
           p11t.task_act_finish as N'Task Act Finish',
           p11t.task_constraint_date as N'Task Constraint Date',
           p11t.task_deadline as N'Task Deadline',
           p11t.task_work as N'Task Work',
           p11t.task_act_work as N'Task Actual Work',
           p11t.task_rem_work as N'Task Rem Work',
           p11t.task_ovt_work as N'Task Ovt Work',
           p11t.task_act_ovt_work as N'Task Actual Ovt Work',
           p11t.task_rem_ovt_work as N'Task Rem Ovt Work',
           p11t.task_pct_comp as N'Task %Complete',
           p11t.task_pct_work_comp as N'Task %Work Complete',
           p11t.task_phy_pct_comp as N'Task % Phys Work Complete',
           p11t.task_dur as N'Task Duration',
           p11t.task_rem_dur as N'Task Rem Duration',
           p11t.task_act_dur as N'Task Actual Duration',
           p11t.task_is_milestone as N'Task Milestone',
           p11t.task_cost as N'Task Cost',
           p11t.task_fixed_cost as N'Task Fixed Cost',
           p11t.task_act_cost as N'Task Actual Cost',
           p11t.task_rem_cost as N'Task Rem Cost',
           p11t.task_ovt_cost as N'Task Ovt Cost',
           p11t.task_act_ovt_cost as N'Task Actual Ovt Cost',
           p11t.task_rem_ovt_cost as N'Task Rem Ovt Cost'
INTO
ProjectServer_Migration_Data_Validation.dbo.Migration_PS2003_Data_Vali
dation_Snapshot

FROM msp_projects AS p11p,
msp_tasks AS p11t
WHERE (p11p.proj_id = p11t.proj_id)
```

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```
ORDER BY 1,5
```

Migration Script 4:

```
/*-----------------------------------------------------------------
----
-- Script A4: Capture WSS2 Project Workspaces Data Snapshot
-- List all Projects 2003 with Associated WSS workspace sites
-- Updated the USE statement to point to the Project Server 2003
database
-----------------------------------------------------------------
----*/
USE ProjectServer_Migration_Data_Validation
IF EXISTS (SELECT id FROM dbo.sysobjects WHERE id =
OBJECT_ID(N'Migration_PS2003_ProjectWorkspaces')
AND OBJECTPROPERTY(id, N'IsUserTable') = 1)
DROP TABLE dbo.Migration_PS2003_ProjectWorkspaces
GO
USE ProjectServer_2003

SELECT [PROJ_NAME]
           ,[WPROJ_ID]
      ,[WPROJ_STS_SUBWEB_NAME]
      ,[WPROJ_ISSUE_LIST_NAME]
      ,[WPROJ_RISK_LIST_NAME]
      INTO
ProjectServer_Migration_Data_Validation.dbo.Migration_PS2003_ProjectWo
rkspaces
   FROM [MSP_WEB_PROJECTS] P, dbo.MSP_WEB_STS_SERVERS W
  where [WPROJ_STS_SUBWEB_NAME] IS NOT NULL
  and p.[WSTS_SERVER_ID] = w.[WSTS_SERVER_ID]
```

Migration Script 5:

```
/*-----------------------------------------------------------------
-------------------
-- Script A5: Capture Data Validation Snapshot for Project Server 2007
after migration---- Updated Jan 10,2010
-- This script:
-- 1. drops the PS2007 Validation Snapshot table if it exists from the
Migration Validation
      Database previously created
   2. Reads the Project Server 2007 SP2 Draft database to extract
Projects and Tasks information
   3. Stores the output dataset into a new table created in the
Migration Validation
      Database
   This script requires to set the database names of the Migration
Validation Database and the
   Project Server 2007 database in the USE statements
```

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```
 ---------------------------------------------------------------------
-------------------------*/

USE ProjectServer_Migration_Data_Validation
IF EXISTS (SELECT id FROM dbo.sysobjects WHERE id =
OBJECT_ID(N'MIgration_PS2007_Data_Validation_Snapshot')
AND OBJECTPROPERTY(id, N'IsUserTable') = 1)
DROP TABLE dbo.MIgration_PS2007_Data_Validation_Snapshot
GO
USE [ProjectServer_Draft]
GO
SET TRANSACTION ISOLATION LEVEL READ UNCOMMITTED
GO
SELECT p12p.proj_name as N'Project Name',
        p12p.proj_uid as 'Project UID',
        p12p.proj_info_start_date as N'Proj Start Date',
        p12p.proj_info_finish_date as N'Proj Finish Date',
        p12p.proj_info_status_date as N'Proj Status Date',
        p12p.CAL_UID as N'Proj Calendar UID',
        p12t.task_name as N'Task Name',
        p12t.TASK_ID AS N'Task ID',
       p12t.task_type as N'Task Type',
       p12t.task_start_date as N'Task Start Date',
       p12t.task_finish_date as N'Task Finish Date',
           p12t.task_act_start as N'Task Act Start',
           p12t.task_act_finish as N'Task Act Finish',
           p12t.task_constraint_date as N'Task Constraint Date',
           p12t.task_deadline as N'Task Deadline',
           p12t.task_work as N'Task Work',
           p12t.task_act_work as N'Task Actual Work',
           p12t.task_rem_work as N'Task Rem Work',
           p12t.task_ovt_work as N'Task Ovt Work',
           p12t.task_act_ovt_work as N'Task Actual Ovt Work',
           p12t.task_rem_ovt_work as N'Task Rem Ovt Work',
           p12t.task_pct_comp as N'Task %Complete',
           p12t.task_pct_work_comp as N'Task % Work Complete',
           p12t.task_phy_pct_comp as N'Task % Phys Work Complete',
           p12t.task_dur as N'Task Duration',
           p12t.task_rem_dur as N'Task Rem Duration',
           p12t.task_act_dur as N'Task Actual Duration',
           p12t.task_is_milestone as N'Task Milestone',
           p12t.task_cost as N'Task Cost',
           p12t.task_fixed_cost as N'Task Fixed Cost',
           p12t.task_act_cost as N'Task Actual Cost',
           p12t.task_rem_cost as N'Task Rem Cost',
           p12t.task_ovt_cost as N'Task Ovt Cost',
           p12t.task_act_ovt_cost as N'Task Actual Ovt Cost',
           p12t.task_rem_ovt_cost as N'Task Rem Ovt Cost'
INTO
ProjectServer_Migration_Data_Validation.dbo.MIgration_PS2007_Data_Vali
dation_Snapshot
FROM dbo.msp_projects AS p12p,
```

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```
dbo.msp_tasks AS p12t
WHERE (p12p.proj_uid = p12t.proj_uid)

ORDER BY 1,4
```

Migration Script 6:

```
/*-------------------------------------------------------------
-- Script A6
-- Project2007_Projects_With_WSS_Sites.sql
-- List all Projects with Associated WSS workspace sites
     Run this query against the Project Server 2007 Published database
----------------------------------------------------------------*/
USE ProjectServer_Migration_Data_Validation
IF EXISTS (SELECT id FROM dbo.sysobjects WHERE id =
OBJECT_ID(N'Migration_PS2007_ProjectWorkspaces')
AND OBJECTPROPERTY(id, N'IsUserTable') = 1)
DROP TABLE dbo.Migration_PS2007_ProjectWorkspaces
go
USE ProjectServer_Published
SELECT [PROJ_NAME]
           ,[PROJ_UID]
      ,[WPROJ_STS_SUBWEB_NAME]
      ,[WPROJ_ISSUE_LIST_NAME]
      ,[WPROJ_RISK_LIST_NAME]
      INTO
ProjectServer_Migration_Data_Validation.dbo.Migration_PS2007_ProjectWo
rkspaces
       FROM [MSP_PROJECTS] P
where [WPROJ_STS_SUBWEB_NAME] IS NOT NULL

order by proj_name
```

Migration Script 7:

```
/*-------------------------------------------------------------------
-------------------
-- Script A7: Compares data validation snapshot between Pre-Migration
(2003) and Post-Migration (2007) databases ----
-- This script:
-- 1. Compares the project data before and after the migration from
Project Server 2003 SP3 to Project Server 2003 SP2
-- 2. List the projects not migrated to the draft database (existing
in Project Server 2003 but missing in 2007)
   3. List the distinct project names with differences on specific
fields
   4. List the distinct project names snd tasks with differences on
specific fields
   5. Ajust to parameters by using variables containing the % of
difference between the Project 2003 and 2007 data
```

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```
   This script requires to set the database names of the Migration
Validation Database.
   By default we have: USE ProjectServer_Migration_Data_Validation

   This script allows to set variables for the Work, Duration and Cost
fields of the projects and tasks. The variables are used
   to expose the differences on various fields which are either
greater to the positive margin of error (in %) or smaller than
   the negative margin of error (in %). This feature allows the user
to ignore the differences which are within the margin of error,
   and focus on the significant differences.

-- ************************************************* BEGIN DECLARE
VARIABLES ************************************************* --
*/
DECLARE @Work_Ratio decimal(18,4);          -- Variable to set the Work
Ratio differences in % (+ or -) which are tolerable
DECLARE @Duration_Ratio decimal(18,4);-- Variable to set the Duration
Ratio differences in % (+ or -) which are tolerable
DECLARE @Cost_Ratio decimal(18,4);          -- Variable to set the Cost
Ratio differences in % (+ or -) which are tolerable

-----------------------------------------------------  END DECLARE
VARIABLES  ---------------------------------------------------

-- ************************************************* BEGIN SET VARIABLE
VALUES ************************************************* --

SET @Work_Ratio = 0.005;         -- Set the Work Ratio to a % to ignore
differences (+ or -) which are tolerable
SET @Duration_Ratio = 0.005;     -- Set local variable to a % to ignore
differences (+ or -) which are tolerable
SET @Cost_Ratio = 0.005;         -- Set local variable to a % to ignore
differences (+ or -) which are tolerable

-----------------------------------------------------  END SET VARIABLE
VALUES  ---------------------------------------------------

 ---------------------------------------------------------------------
-------------------------*/

USE ProjectServer_Migration_Data_Validation

-----------------------------------------------------
-- List of Projects not migrated to the Project Server 2007 Draft
database
-----------------------------------------------------
select distinct [Project Name] AS 'List of Projects not migrated to
the Project Server 2007 Draft database'
from Migration_PS2003_Data_Validation_Snapshot
where replace([Project Name], '.Published', '_Published') not in
```

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```
      (select [Project Name] from
Migration_PS2007_Data_Validation_Snapshot)
      and Migration_PS2003_Data_Validation_Snapshot.[proj type] in
(0,1,100)


--------------------------------------------------
-- Projects with different start date
--------------------------------------------------
select
      Migration_PS2003_Data_Validation_Snapshot.[Project Name]
      AS 'List of Projects with Project Start Dates not Matching After
Migration',
      datediff(day,
                        Migration_PS2003_Data_Validation_Snapshot.[Proj
Start Date],
                        Migration_PS2007_Data_Validation_Snapshot.[Proj
Start Date])
                        as Difference_in_Days
from
      Migration_PS2003_Data_Validation_Snapshot,
Migration_PS2007_Data_Validation_Snapshot WITH (NOLOCK)
where
      REPLACE(Migration_PS2003_Data_Validation_Snapshot.[Project
Name],'.Published','_Published')
      = Migration_PS2007_Data_Validation_Snapshot.[Project Name] and
      Migration_PS2003_Data_Validation_Snapshot.[Proj Start Date]
      <> Migration_PS2007_Data_Validation_Snapshot.[Proj Start Date]
order by Difference_in_Days



--------------------------------------------------
-- Projects with different finish date
--------------------------------------------------
select distinct
      Migration_PS2003_Data_Validation_Snapshot.[Project Name]
      AS 'List of Projects with Project Finish Dates not Matching After
Migration',
      Migration_PS2003_Data_Validation_Snapshot.[Proj Finish Date],
      Migration_PS2007_Data_Validation_Snapshot.[Proj Finish Date],
      datediff(day,
      Migration_PS2003_Data_Validation_Snapshot.[Proj Finish
Date],Migration_PS2007_Data_Validation_Snapshot.[Proj Finish Date])
            as Difference_in_Days
from
      Migration_PS2003_Data_Validation_Snapshot,
Migration_PS2007_Data_Validation_Snapshot --WITH (NOLOCK)
where
      REPLACE(Migration_PS2003_Data_Validation_Snapshot.[Project
Name],'.Published','_Published')
      = Migration_PS2007_Data_Validation_Snapshot.[Project Name] and
```

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```
     Migration_PS2003_Data_Validation_Snapshot.[Proj Finish Date] <>
Migration_PS2007_Data_Validation_Snapshot.[Proj Finish Date]
order by Difference_in_Days


--------------------------------------------------
-- Projects with different Project Work
--------------------------------------------------
select distinct
     Migration_PS2003_Data_Validation_Snapshot.[Project Name]
     AS 'List of Projects with Project Work not Matching After
Migration'
     , Migration_PS2003_Data_Validation_Snapshot.[Task Work] AS
'Project 2003 Work'
     , Migration_PS2007_Data_Validation_Snapshot.[Task Work] AS
'Project 2007 Work',
      (Migration_PS2003_Data_Validation_Snapshot.[Task Work]
     - Migration_PS2007_Data_Validation_Snapshot.[Task Work]) as 'Work
Difference'
from
     Migration_PS2003_Data_Validation_Snapshot,
Migration_PS2007_Data_Validation_Snapshot --WITH (NOLOCK)
where

     REPLACE(Migration_PS2003_Data_Validation_Snapshot.[Project
Name],'.Published','_Published')
     = Migration_PS2007_Data_Validation_Snapshot.[Project Name]
     and Migration_PS2003_Data_Validation_Snapshot.[Task Work] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Work]
     and ((Migration_PS2003_Data_Validation_Snapshot.[Task Work]
     - Migration_PS2007_Data_Validation_Snapshot.[Task Work])
     > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Work])/100)
     or
      ((Migration_PS2003_Data_Validation_Snapshot.[Task Work]
     - Migration_PS2007_Data_Validation_Snapshot.[Task Work])
      < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Work])/100))
     and Migration_PS2003_Data_Validation_Snapshot.[Task UID]
     = Migration_PS2007_Data_Validation_Snapshot.[Task ID]
     and Migration_PS2003_Data_Validation_Snapshot.[Task UID]= 0
     and Migration_PS2003_Data_Validation_Snapshot.[Task Type] =
         Migration_PS2007_Data_Validation_Snapshot.[Task Type]
     and Migration_PS2007_Data_Validation_Snapshot.[Task Type] = 1
order by 'Work Difference'


--------------------------------------------------
-- Projects with different Actual Work
--------------------------------------------------
select distinct
     Migration_PS2003_Data_Validation_Snapshot.[Project Name]
```

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```
      AS 'List of Projects with Project Actual Work not Matching After
Migration'
      , Migration_PS2003_Data_Validation_Snapshot.[Task Actual Work] AS
'Project 2003 Actual Work'
      , Migration_PS2007_Data_Validation_Snapshot.[Task Actual Work] AS
'Project 2007 Actual Work',
      (Migration_PS2003_Data_Validation_Snapshot.[Task Actual Work]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Actual Work])
as 'Actual Work Difference'
from
      Migration_PS2003_Data_Validation_Snapshot,
Migration_PS2007_Data_Validation_Snapshot --WITH (NOLOCK)
where

      REPLACE(Migration_PS2003_Data_Validation_Snapshot.[Project
Name],'.Published','_Published')
      = Migration_PS2007_Data_Validation_Snapshot.[Project Name]
      and Migration_PS2003_Data_Validation_Snapshot.[Task Actual Work]
            <> Migration_PS2007_Data_Validation_Snapshot.[Task Actual
Work]
      and ((Migration_PS2003_Data_Validation_Snapshot.[Task Actual
Work]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Actual Work])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Actual Work])/100)
      or
      ((Migration_PS2003_Data_Validation_Snapshot.[Task Actual Work]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Actual Work])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Actual Work])/100))
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]
      = Migration_PS2007_Data_Validation_Snapshot.[Task ID]
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]= 0
      and Migration_PS2003_Data_Validation_Snapshot.[Task Type] =
          Migration_PS2007_Data_Validation_Snapshot.[Task Type]
      and Migration_PS2007_Data_Validation_Snapshot.[Task Type] = 1
order by 'Actual Work Difference'

--------------------------------------------------
-- Projects with different Remaining Work
--------------------------------------------------
select distinct
      Migration_PS2003_Data_Validation_Snapshot.[Project Name]
      AS 'List of Projects with Project Remaining Work not Matching
After Migration'
      , Migration_PS2003_Data_Validation_Snapshot.[Task Rem Work] AS
'Project 2003 Rem Work'
      , Migration_PS2007_Data_Validation_Snapshot.[Task Rem Work] AS
'Project 2007 Rem Work',
      (Migration_PS2003_Data_Validation_Snapshot.[Task Rem Work]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Rem Work]) as
'Rem Work Difference'
```

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```
from
      Migration_PS2003_Data_Validation_Snapshot,
Migration_PS2007_Data_Validation_Snapshot --WITH (NOLOCK)
where

      REPLACE(Migration_PS2003_Data_Validation_Snapshot.[Project
Name],'.Published','_Published')
      = Migration_PS2007_Data_Validation_Snapshot.[Project Name]
      and Migration_PS2003_Data_Validation_Snapshot.[Task Rem Work]
            <> Migration_PS2007_Data_Validation_Snapshot.[Task Rem
Work]
      and ((Migration_PS2003_Data_Validation_Snapshot.[Task Rem Work]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Rem Work])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Rem Work])/100)
      or
      ((Migration_PS2003_Data_Validation_Snapshot.[Task Rem Work]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Rem Work])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Rem Work])/100))
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]
      = Migration_PS2007_Data_Validation_Snapshot.[Task ID]
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]= 0
      and Migration_PS2003_Data_Validation_Snapshot.[Task Type] =
          Migration_PS2007_Data_Validation_Snapshot.[Task Type]
      and Migration_PS2007_Data_Validation_Snapshot.[Task Type] = 1
order by 'Rem Work Difference'


--------------------------------------------------
-- Projects with different Project % Complete
--------------------------------------------------
select distinct
      Migration_PS2003_Data_Validation_Snapshot.[Project Name]
      AS 'List of Projects with Project Task % Complete not Matching
After Migration'
      , Migration_PS2003_Data_Validation_Snapshot.[Task %Complete] AS
'Project 2003 %Complete'
      , Migration_PS2007_Data_Validation_Snapshot.[Task %Complete] AS
'Project 2007 %Complete',
      (Migration_PS2003_Data_Validation_Snapshot.[Task %Complete]
      - Migration_PS2007_Data_Validation_Snapshot.[Task %Complete]) as
'%Complete Difference'
from
      Migration_PS2003_Data_Validation_Snapshot,
Migration_PS2007_Data_Validation_Snapshot --WITH (NOLOCK)
where

      REPLACE(Migration_PS2003_Data_Validation_Snapshot.[Project
Name],'.Published','_Published')
      = Migration_PS2007_Data_Validation_Snapshot.[Project Name]
      and Migration_PS2003_Data_Validation_Snapshot.[Task %Complete]
```

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```
           <> Migration_PS2007_Data_Validation_Snapshot.[Task
%Complete]
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]
      = Migration_PS2007_Data_Validation_Snapshot.[Task ID]
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]= 0
      and Migration_PS2003_Data_Validation_Snapshot.[Task Type] =
          Migration_PS2007_Data_Validation_Snapshot.[Task Type]
      and Migration_PS2007_Data_Validation_Snapshot.[Task Type] = 1
order by '%Complete Difference'


----------------------------------------------------
-- Projects with different Project %Work Complete
----------------------------------------------------
select distinct
      Migration_PS2003_Data_Validation_Snapshot.[Project Name]
      AS 'List of Projects with Project Task %Work Complete not
Matching After Migration'
      , Migration_PS2003_Data_Validation_Snapshot.[Task %Work Complete]
AS 'Project 2003 %Work Complete'
      , Migration_PS2007_Data_Validation_Snapshot.[Task % Work
Complete] AS 'Project 2007 %Work Complete',
      (Migration_PS2003_Data_Validation_Snapshot.[Task %Work Complete]
      - Migration_PS2007_Data_Validation_Snapshot.[Task % Work
Complete]) as '%Work Complete Difference'
from
      Migration_PS2003_Data_Validation_Snapshot,
Migration_PS2007_Data_Validation_Snapshot --WITH (NOLOCK)
where

      REPLACE(Migration_PS2003_Data_Validation_Snapshot.[Project
Name],'.Published','_Published')
      = Migration_PS2007_Data_Validation_Snapshot.[Project Name]
      and Migration_PS2003_Data_Validation_Snapshot.[Task %Work
Complete]
           <> Migration_PS2007_Data_Validation_Snapshot.[Task % Work
Complete]
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]
      = Migration_PS2007_Data_Validation_Snapshot.[Task ID]
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]= 0
      and Migration_PS2003_Data_Validation_Snapshot.[Task Type] =
          Migration_PS2007_Data_Validation_Snapshot.[Task Type]
      and Migration_PS2007_Data_Validation_Snapshot.[Task Type] = 1
order by '%Work Complete Difference'


-------------------------------------------------------
-- Projects with different Task % Phys Work Complete
-------------------------------------------------------
select distinct
      Migration_PS2003_Data_Validation_Snapshot.[Project Name]
```

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```
           AS 'List of Projects with Project Task % Phys Work Complete
not Matching After Migration'
      , Migration_PS2003_Data_Validation_Snapshot.[Task % Phys Work
Complete] AS 'Project 2003 % Phys Work Complete'
      , Migration_PS2007_Data_Validation_Snapshot.[Task % Phys Work
Complete] AS 'Project 2007 % Phys Work Complete',
      (Migration_PS2003_Data_Validation_Snapshot.[Task % Phys Work
Complete]
      - Migration_PS2007_Data_Validation_Snapshot.[Task % Phys Work
Complete]) as '% Phys Work Complete Difference'
from
      Migration_PS2003_Data_Validation_Snapshot,
Migration_PS2007_Data_Validation_Snapshot --WITH (NOLOCK)
where

      REPLACE(Migration_PS2003_Data_Validation_Snapshot.[Project
Name],'.Published','_Published')
      = Migration_PS2007_Data_Validation_Snapshot.[Project Name]
      and Migration_PS2003_Data_Validation_Snapshot.[Task % Phys Work
Complete]
           <> Migration_PS2007_Data_Validation_Snapshot.[Task % Phys
Work Complete]
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]
      = Migration_PS2007_Data_Validation_Snapshot.[Task ID]
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]= 0
      and Migration_PS2003_Data_Validation_Snapshot.[Task Type] =
          Migration_PS2007_Data_Validation_Snapshot.[Task Type]
      and Migration_PS2007_Data_Validation_Snapshot.[Task Type] = 1
order by '% Phys Work Complete Difference'



--------------------------------------------------
-- Projects with different Duration
--------------------------------------------------
select distinct
      Migration_PS2003_Data_Validation_Snapshot.[Project Name]
           AS 'List of Projects with Project Duration not Matching
After Migration'
      , Migration_PS2003_Data_Validation_Snapshot.[Task Duration] AS
'Project 2003 Duration'
      , Migration_PS2007_Data_Validation_Snapshot.[Task Duration] AS
'Project 2007 Duration',
      (Migration_PS2003_Data_Validation_Snapshot.[Task Duration]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Duration]) as
'Duration Difference'
from
      Migration_PS2003_Data_Validation_Snapshot,
Migration_PS2007_Data_Validation_Snapshot --WITH (NOLOCK)
where
```

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```
      REPLACE(Migration_PS2003_Data_Validation_Snapshot.[Project
Name],'.Published','_Published')
      = Migration_PS2007_Data_Validation_Snapshot.[Project Name]
      and Migration_PS2003_Data_Validation_Snapshot.[Task Duration]
            <> Migration_PS2007_Data_Validation_Snapshot.[Task
Duration]
      and ((Migration_PS2003_Data_Validation_Snapshot.[Task Duration]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Duration])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Duration])/100)
      or
      ((Migration_PS2003_Data_Validation_Snapshot.[Task Duration]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Duration])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Duration])/100))
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]
      = Migration_PS2007_Data_Validation_Snapshot.[Task ID]
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]= 0
      and Migration_PS2003_Data_Validation_Snapshot.[Task Type] =
          Migration_PS2007_Data_Validation_Snapshot.[Task Type]
      and Migration_PS2007_Data_Validation_Snapshot.[Task Type] = 1
order by 'Duration Difference'

---------------------------------------------------
-- Projects with different Remaining Duration
---------------------------------------------------
select distinct
      Migration_PS2003_Data_Validation_Snapshot.[Project Name]
            AS 'List of Projects with Remaining Duration not Matching
After Migration'
      , Migration_PS2003_Data_Validation_Snapshot.[Task Rem Duration]
AS 'Project 2003 Rem Duration'
      , Migration_PS2007_Data_Validation_Snapshot.[Task Rem Duration]
AS 'Project 2007 Rem Duration',
       (Migration_PS2003_Data_Validation_Snapshot.[Task Rem Duration]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Rem Duration])
as 'Rem Duration Difference'
from
      Migration_PS2003_Data_Validation_Snapshot,
Migration_PS2007_Data_Validation_Snapshot --WITH (NOLOCK)
where

      REPLACE(Migration_PS2003_Data_Validation_Snapshot.[Project
Name],'.Published','_Published')
      = Migration_PS2007_Data_Validation_Snapshot.[Project Name]
      and Migration_PS2003_Data_Validation_Snapshot.[Task Rem Duration]
            <> Migration_PS2007_Data_Validation_Snapshot.[Task Rem
Duration]
      and ((Migration_PS2003_Data_Validation_Snapshot.[Task Rem
Duration]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Rem Duration])
```

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```
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Rem Duration])/100)
      or
      ((Migration_PS2003_Data_Validation_Snapshot.[Task Rem Duration]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Rem Duration])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Rem Duration])/100))
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]
      = Migration_PS2007_Data_Validation_Snapshot.[Task ID]
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]= 0
      and Migration_PS2003_Data_Validation_Snapshot.[Task Type] =
          Migration_PS2007_Data_Validation_Snapshot.[Task Type]
      and Migration_PS2007_Data_Validation_Snapshot.[Task Type] = 1
order by 'Rem Duration Difference'

---------------------------------------------------
-- Projects with different Actual Duration
---------------------------------------------------
select distinct
      Migration_PS2003_Data_Validation_Snapshot.[Project Name]
           AS 'List of Projects with Project Actual Duration not
Matching After Migration'
      , Migration_PS2003_Data_Validation_Snapshot.[Task Actual
Duration]  AS 'Project 2003 Actual Duration'
      , Migration_PS2007_Data_Validation_Snapshot.[Task Actual
Duration] AS 'Project 2007 Actual Duration',
      (Migration_PS2003_Data_Validation_Snapshot.[Task Actual Duration]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Actual
Duration]) as 'Actual Duration Difference'
from
      Migration_PS2003_Data_Validation_Snapshot,
Migration_PS2007_Data_Validation_Snapshot --WITH (NOLOCK)
where

      REPLACE(Migration_PS2003_Data_Validation_Snapshot.[Project
Name],'.Published','_Published')
      = Migration_PS2007_Data_Validation_Snapshot.[Project Name]
      and Migration_PS2003_Data_Validation_Snapshot.[Task Actual
Duration]
           <> Migration_PS2007_Data_Validation_Snapshot.[Task Actual
Duration]
      and ((Migration_PS2003_Data_Validation_Snapshot.[Task Actual
Duration]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Actual
Duration])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Actual Duration])/100)
      or
      ((Migration_PS2003_Data_Validation_Snapshot.[Task Actual
Duration]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Actual
Duration])
```

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```
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Actual
Duration])/100))
      and (Migration_PS2003_Data_Validation_Snapshot.[Task Actual
Duration]
            - Migration_PS2007_Data_Validation_Snapshot.[Task Actual
Duration]) != -1
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]
      = Migration_PS2007_Data_Validation_Snapshot.[Task ID]
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]= 0
      and Migration_PS2003_Data_Validation_Snapshot.[Task Type] =
          Migration_PS2007_Data_Validation_Snapshot.[Task Type]
      and Migration_PS2007_Data_Validation_Snapshot.[Task Type] = 1
order by 'Actual Duration Difference'


--------------------------------------------------
-- Projects with different Cost
--------------------------------------------------
select distinct
      Migration_PS2003_Data_Validation_Snapshot.[Project Name]
                  AS 'List of Projects with Project Cost not Matching
After Migration'
      , Migration_PS2003_Data_Validation_Snapshot.[Task Cost]  AS
'Project 2003 Cost'
      , Migration_PS2007_Data_Validation_Snapshot.[Task Cost] AS
'Project 2007 Cost',
      (Migration_PS2003_Data_Validation_Snapshot.[Task Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Cost]) as 'Cost
Difference'
from
      Migration_PS2003_Data_Validation_Snapshot,
Migration_PS2007_Data_Validation_Snapshot --WITH (NOLOCK)
where

      REPLACE(Migration_PS2003_Data_Validation_Snapshot.[Project
Name],'.Published','_Published')
      = Migration_PS2007_Data_Validation_Snapshot.[Project Name]
      and Migration_PS2003_Data_Validation_Snapshot.[Task Cost]
            <> Migration_PS2007_Data_Validation_Snapshot.[Task Cost]
      and ((Migration_PS2003_Data_Validation_Snapshot.[Task Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Cost])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Cost])/100)
      or
      ((Migration_PS2003_Data_Validation_Snapshot.[Task Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Cost])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Cost])/100))
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]
      = Migration_PS2007_Data_Validation_Snapshot.[Task ID]
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]= 0
```

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```
      and Migration_PS2003_Data_Validation_Snapshot.[Task Type] =
          Migration_PS2007_Data_Validation_Snapshot.[Task Type]
      and Migration_PS2007_Data_Validation_Snapshot.[Task Type] = 1
order by 'Cost Difference'

--------------------------------------------------
-- Projects with different Fixed Cost
--------------------------------------------------
select distinct
      Migration_PS2003_Data_Validation_Snapshot.[Project Name]
                 AS 'List of Projects with Project Fixed Cost not
Matching After Migration'
      , Migration_PS2003_Data_Validation_Snapshot.[Task Fixed Cost]  AS
'Project 2003 Fixed Cost'
      , Migration_PS2007_Data_Validation_Snapshot.[Task Fixed Cost] AS
'Project 2007 Fixed Cost',
      (Migration_PS2003_Data_Validation_Snapshot.[Task Fixed Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Fixed Cost]) as
'Fixed Cost Difference'
from
      Migration_PS2003_Data_Validation_Snapshot,
Migration_PS2007_Data_Validation_Snapshot --WITH (NOLOCK)
where

      REPLACE(Migration_PS2003_Data_Validation_Snapshot.[Project
Name],'.Published','_Published')
      = Migration_PS2007_Data_Validation_Snapshot.[Project Name]
      and Migration_PS2003_Data_Validation_Snapshot.[Task Fixed Cost]
            <> Migration_PS2007_Data_Validation_Snapshot.[Task Fixed
Cost]
      and ((Migration_PS2003_Data_Validation_Snapshot.[Task Fixed Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Fixed Cost])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Fixed Cost])/100)
      or
      ((Migration_PS2003_Data_Validation_Snapshot.[Task Fixed Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Fixed Cost])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Fixed Cost])/100))
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]
      = Migration_PS2007_Data_Validation_Snapshot.[Task ID]
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]= 0
      and Migration_PS2003_Data_Validation_Snapshot.[Task Type] =
          Migration_PS2007_Data_Validation_Snapshot.[Task Type]
      and Migration_PS2007_Data_Validation_Snapshot.[Task Type] = 1
order by 'Fixed Cost Difference'

--------------------------------------------------
-- Projects with different Actual Cost
--------------------------------------------------
select distinct
      Migration_PS2003_Data_Validation_Snapshot.[Project Name]
```

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```
      AS 'List of Projects with Project Actual Cost not Matching After
Migration'
      , Migration_PS2003_Data_Validation_Snapshot.[Task Actual Cost]
AS 'Project 2003 Actual Cost'
      , Migration_PS2007_Data_Validation_Snapshot.[Task Actual Cost] AS
'Project 2007 Actual Cost',
      (Migration_PS2003_Data_Validation_Snapshot.[Task Actual Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Actual Cost])
as 'Actual Cost Difference'
from
      Migration_PS2003_Data_Validation_Snapshot,
Migration_PS2007_Data_Validation_Snapshot --WITH (NOLOCK)
where

      REPLACE(Migration_PS2003_Data_Validation_Snapshot.[Project
Name],'.Published','_Published')
      = Migration_PS2007_Data_Validation_Snapshot.[Project Name]
      and Migration_PS2003_Data_Validation_Snapshot.[Task Actual Cost]
            <> Migration_PS2007_Data_Validation_Snapshot.[Task Actual
Cost]
      and ((Migration_PS2003_Data_Validation_Snapshot.[Task Actual
Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Actual Cost])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Actual Cost])/100)
      or
      ((Migration_PS2003_Data_Validation_Snapshot.[Task Actual Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Actual Cost])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Actual Cost])/100))
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]
      = Migration_PS2007_Data_Validation_Snapshot.[Task ID]
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]= 0
      and Migration_PS2003_Data_Validation_Snapshot.[Task Type] =
          Migration_PS2007_Data_Validation_Snapshot.[Task Type]
      and Migration_PS2007_Data_Validation_Snapshot.[Task Type] = 1
order by 'Actual Cost Difference'

--------------------------------------------------
-- Projects with different Remaining Cost
--------------------------------------------------
select distinct
      Migration_PS2003_Data_Validation_Snapshot.[Project Name]
      AS 'List of Projects with Project Remaining Cost not Matching
After Migration'
      , Migration_PS2003_Data_Validation_Snapshot.[Task Rem Cost]  AS
'Project 2003 Rem Cost'
      , Migration_PS2007_Data_Validation_Snapshot.[Task Rem Cost] AS
'Project 2007 Rem Cost',
      (Migration_PS2003_Data_Validation_Snapshot.[Task Rem Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Rem Cost]) as
'Rem Cost Difference'
```

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```
from
      Migration_PS2003_Data_Validation_Snapshot,
Migration_PS2007_Data_Validation_Snapshot --WITH (NOLOCK)
where

      REPLACE(Migration_PS2003_Data_Validation_Snapshot.[Project
Name],'.Published','_Published')
      = Migration_PS2007_Data_Validation_Snapshot.[Project Name]
      and Migration_PS2003_Data_Validation_Snapshot.[Task Rem Cost]
            <> Migration_PS2007_Data_Validation_Snapshot.[Task Rem
Cost]
      and ((Migration_PS2003_Data_Validation_Snapshot.[Task Rem Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Rem Cost])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Rem Cost])/100)
      or
      ((Migration_PS2003_Data_Validation_Snapshot.[Task Rem Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Rem Cost])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Rem Cost])/100))
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]
      = Migration_PS2007_Data_Validation_Snapshot.[Task ID]
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]= 0
      and Migration_PS2003_Data_Validation_Snapshot.[Task Type] =
          Migration_PS2007_Data_Validation_Snapshot.[Task Type]
      and Migration_PS2007_Data_Validation_Snapshot.[Task Type] = 1
order by 'Rem Cost Difference'

--------------------------------------------------
-- Projects with different Overtime Cost
--------------------------------------------------
select distinct
      Migration_PS2003_Data_Validation_Snapshot.[Project Name]
      AS 'List of Projects with Project Overtime Cost not Matching
After Migration'
      , Migration_PS2003_Data_Validation_Snapshot.[Task Ovt Cost]  AS
'Project 2003 Ovt Cost'
      , Migration_PS2007_Data_Validation_Snapshot.[Task Ovt Cost] AS
'Project 2007 Ovt Cost',
       (Migration_PS2003_Data_Validation_Snapshot.[Task Ovt Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Ovt Cost]) as
'Ovt Cost Difference'
from
      Migration_PS2003_Data_Validation_Snapshot,
Migration_PS2007_Data_Validation_Snapshot
where

      REPLACE(Migration_PS2003_Data_Validation_Snapshot.[Project
Name],'.Published','_Published')
      = Migration_PS2007_Data_Validation_Snapshot.[Project Name]
      and Migration_PS2003_Data_Validation_Snapshot.[Task Ovt Cost]
```

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```
           <> Migration_PS2007_Data_Validation_Snapshot.[Task Ovt
Cost]
      and ((Migration_PS2003_Data_Validation_Snapshot.[Task Ovt Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Ovt Cost])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Ovt Cost])/100)
      or
      ((Migration_PS2003_Data_Validation_Snapshot.[Task Ovt Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Ovt Cost])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Ovt Cost])/100))
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]
      = Migration_PS2007_Data_Validation_Snapshot.[Task ID]
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]= 0
      and Migration_PS2003_Data_Validation_Snapshot.[Task Type] =
          Migration_PS2007_Data_Validation_Snapshot.[Task Type]
      and Migration_PS2007_Data_Validation_Snapshot.[Task Type] = 1
order by 'Ovt Cost Difference'

----------------------------------------------------------------------
/* Distinct Projects with one or more mismatch
----------------------------------------------------------------------
*/
select Migration_PS2003_Data_Validation_Snapshot.[Project Name]
           AS 'List of Projects with at least one mismatch After
Migration',
           datediff(day,
                       Migration_PS2003_Data_Validation_Snapshot.[Proj
Start Date],
                       Migration_PS2007_Data_Validation_Snapshot.[Proj
Start Date]) as Start_Date_Diff_in_Days,
           datediff(day,
                       Migration_PS2003_Data_Validation_Snapshot.[Proj
Finish Date],
                       Migration_PS2007_Data_Validation_Snapshot.[Proj
Finish Date]) as Finish_Date_Diff_in_Days,
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Work]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Work]) as 'Work Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Actual Work]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Actual Work]) as 'Actual Work Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Rem Work]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Rem Work]) as 'Rem Work Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
%Complete]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
%Complete]) as '%Complete Diff',
```

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```
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
%Work Complete]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
% Work Complete]) as '%Work Complete Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
% Phys Work Complete]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
% Phys Work Complete]) as '% Phys Work Complete Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Duration]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Duration]) as 'Duration Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Rem Duration]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Rem Duration]) as 'Rem Duration Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Actual Duration]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Actual Duration]) as 'Actual Duration Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Cost]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Cost]) as 'Cost Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Fixed Cost]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Fixed Cost]) as 'Fixed Cost Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Actual Cost]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Actual Cost]) as 'Actual Cost Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Rem Cost]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Rem Cost]) as 'Rem Cost Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Ovt Cost]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Ovt Cost]) as 'Ovt Cost Diff'


from Migration_PS2003_Data_Validation_Snapshot,
Migration_PS2007_Data_Validation_Snapshot
where
      replace(Migration_PS2003_Data_Validation_Snapshot.[Project Name],
'.Published', '_Published')
      = Migration_PS2007_Data_Validation_Snapshot.[Project Name] and
      (
      Migration_PS2003_Data_Validation_Snapshot.[Proj Start Date] <>
Migration_PS2007_Data_Validation_Snapshot.[Proj Start Date] or
```

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```
     Migration_PS2003_Data_Validation_Snapshot.[Proj Finish Date] <>
Migration_PS2007_Data_Validation_Snapshot.[Proj Finish Date]
or (Migration_PS2003_Data_Validation_Snapshot.[Task Work] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Work]
     and ((Migration_PS2003_Data_Validation_Snapshot.[Task Work] -
Migration_PS2007_Data_Validation_Snapshot.[Task Work])
     > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Work])/100)
     or ((Migration_PS2003_Data_Validation_Snapshot.[Task Work] -
Migration_PS2007_Data_Validation_Snapshot.[Task Work])
      < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Work])/100)))
or (Migration_PS2003_Data_Validation_Snapshot.[Task Actual Work] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Actual Work]
    and ((Migration_PS2003_Data_Validation_Snapshot.[Task Actual Work]
     - Migration_PS2007_Data_Validation_Snapshot.[Task Actual Work])
     > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Actual Work])/100)
     or ((Migration_PS2003_Data_Validation_Snapshot.[Task Actual Work]
- Migration_PS2007_Data_Validation_Snapshot.[Task Actual Work])
      < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Actual Work])/100)))
or (Migration_PS2003_Data_Validation_Snapshot.[Task Rem Work] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Rem Work]
    and ((Migration_PS2003_Data_Validation_Snapshot.[Task Rem Work]
     - Migration_PS2007_Data_Validation_Snapshot.[Task Rem Work])
     > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Rem Work])/100)
     or ((Migration_PS2003_Data_Validation_Snapshot.[Task Rem Work] -
Migration_PS2007_Data_Validation_Snapshot.[Task Rem Work])
      < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Rem Work])/100)))
or   Migration_PS2003_Data_Validation_Snapshot.[Task %Complete] <>
Migration_PS2007_Data_Validation_Snapshot.[Task %Complete]
or   Migration_PS2003_Data_Validation_Snapshot.[Task %Work Complete]
     <> Migration_PS2007_Data_Validation_Snapshot.[Task % Work
Complete]
or   Migration_PS2003_Data_Validation_Snapshot.[Task % Phys Work
Complete] <> Migration_PS2007_Data_Validation_Snapshot.[Task % Phys
Work Complete]
or (Migration_PS2003_Data_Validation_Snapshot.[Task Duration] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Duration]
    and ((Migration_PS2003_Data_Validation_Snapshot.[Task Duration]
     - Migration_PS2007_Data_Validation_Snapshot.[Task Duration])
     > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Duration])/100)
     or ((Migration_PS2003_Data_Validation_Snapshot.[Task Duration] -
Migration_PS2007_Data_Validation_Snapshot.[Task Duration])
      < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Duration])/100)))
or (Migration_PS2003_Data_Validation_Snapshot.[Task Rem Duration] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Rem Duration]
```

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```
    and ((Migration_PS2003_Data_Validation_Snapshot.[Task Rem
Duration]  - Migration_PS2007_Data_Validation_Snapshot.[Task Rem
Duration])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Rem Duration])/100)
      or ((Migration_PS2003_Data_Validation_Snapshot.[Task Rem
Duration] - Migration_PS2007_Data_Validation_Snapshot.[Task Rem
Duration])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Rem Duration])/100)))
or (Migration_PS2003_Data_Validation_Snapshot.[Task Actual Duration]
<> Migration_PS2007_Data_Validation_Snapshot.[Task Actual Duration]
    and ((Migration_PS2003_Data_Validation_Snapshot.[Task Actual
Duration]  - Migration_PS2007_Data_Validation_Snapshot.[Task Actual
Duration])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Actual Duration])/100)
      or ((Migration_PS2003_Data_Validation_Snapshot.[Task Actual
Duration] - Migration_PS2007_Data_Validation_Snapshot.[Task Actual
Duration])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Actual
Duration])/100)))
or (Migration_PS2003_Data_Validation_Snapshot.[Task Cost] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Cost]
    and ((Migration_PS2003_Data_Validation_Snapshot.[Task Cost]   -
Migration_PS2007_Data_Validation_Snapshot.[Task Cost])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Cost])/100)
      or ((Migration_PS2003_Data_Validation_Snapshot.[Task Cost] -
Migration_PS2007_Data_Validation_Snapshot.[Task Cost])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Cost])/100)))
or (Migration_PS2003_Data_Validation_Snapshot.[Task Fixed Cost]   <>
Migration_PS2007_Data_Validation_Snapshot.[Task Fixed Cost]
    and ((Migration_PS2003_Data_Validation_Snapshot.[Task Fixed Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Fixed Cost])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Fixed Cost])/100)
      or ((Migration_PS2003_Data_Validation_Snapshot.[Task Fixed Cost]
- Migration_PS2007_Data_Validation_Snapshot.[Task Fixed Cost])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Fixed Cost])/100)))
or (Migration_PS2003_Data_Validation_Snapshot.[Task Actual Cost] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Actual Cost]
    and ((Migration_PS2003_Data_Validation_Snapshot.[Task Actual Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Actual Cost])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Actual Cost])/100)
      or ((Migration_PS2003_Data_Validation_Snapshot.[Task Actual Cost]
- Migration_PS2007_Data_Validation_Snapshot.[Task Actual Cost])
```

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```
      < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Actual Cost])/100)))
or (Migration_PS2003_Data_Validation_Snapshot.[Task Rem Cost] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Rem Cost]
    and ((Migration_PS2003_Data_Validation_Snapshot.[Task Rem Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Rem Cost])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Rem Cost])/100)
      or ((Migration_PS2003_Data_Validation_Snapshot.[Task Rem Cost] -
Migration_PS2007_Data_Validation_Snapshot.[Task Rem Cost])
      < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Rem Cost])/100)))
or (Migration_PS2003_Data_Validation_Snapshot.[Task Ovt Cost] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Ovt Cost]
      and ((Migration_PS2003_Data_Validation_Snapshot.[Task Ovt Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Ovt Cost])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Ovt Cost])/100)
      or ((Migration_PS2003_Data_Validation_Snapshot.[Task Ovt Cost] -
Migration_PS2007_Data_Validation_Snapshot.[Task Ovt Cost])
      < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Ovt Cost])/100)))
      )
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]
      = Migration_PS2007_Data_Validation_Snapshot.[Task ID]
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]= 0
      and Migration_PS2003_Data_Validation_Snapshot.[Task Type] =
          Migration_PS2007_Data_Validation_Snapshot.[Task Type]
      and Migration_PS2007_Data_Validation_Snapshot.[Task Type] = 1

----------------------------------------------------------------------
/* Distinct Projects and Tasks with one or more mismatch
----------------------------------------------------------------------
*/
select distinct Migration_PS2003_Data_Validation_Snapshot.[Project
Name]
           AS 'List of Projects and tasks with at least one mismatch
after Migration',
           Migration_PS2007_Data_Validation_Snapshot.[Task Name],
           Migration_PS2007_Data_Validation_Snapshot.[Task ID],
           Migration_PS2007_Data_Validation_Snapshot.[Task Type],
           datediff(day,
                      Migration_PS2003_Data_Validation_Snapshot.[Proj
Start Date],
                      Migration_PS2007_Data_Validation_Snapshot.[Proj
Start Date]) as Start_Date_Diff_in_Days,
           datediff(day,
                      Migration_PS2003_Data_Validation_Snapshot.[Proj
Finish Date],
                      Migration_PS2007_Data_Validation_Snapshot.[Proj
Finish Date]) as Finish_Date_Diff_in_Days,
```

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```
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Work]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Work]) as 'Work Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Actual Work]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Actual Work]) as 'Actual Work Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Rem Work]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Rem Work]) as 'Rem Work Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
%Complete]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
%Complete]) as '%Complete Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
%Work Complete]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
% Work Complete]) as '%Work Complete Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
% Phys Work Complete]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
% Phys Work Complete]) as '% Phys Work Complete Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Duration]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Duration]) as 'Duration Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Rem Duration]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Rem Duration]) as 'Rem Duration Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Actual Duration]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Actual Duration]) as 'Actual Duration Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Cost]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Cost]) as 'Cost Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Fixed Cost]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Fixed Cost]) as 'Fixed Cost Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Actual Cost]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Actual Cost]) as 'Actual Cost Diff',
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Rem Cost]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Rem Cost]) as 'Rem Cost Diff',
```

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```
                        (Migration_PS2003_Data_Validation_Snapshot.[Task
Ovt Cost]
                        - Migration_PS2007_Data_Validation_Snapshot.[Task
Ovt Cost]) as 'Ovt Cost Diff'


from Migration_PS2003_Data_Validation_Snapshot,
Migration_PS2007_Data_Validation_Snapshot
where
      replace(Migration_PS2003_Data_Validation_Snapshot.[Project Name],
'.Published', '_Published')
      = Migration_PS2007_Data_Validation_Snapshot.[Project Name] and
      (
      Migration_PS2003_Data_Validation_Snapshot.[Proj Start Date] <>
Migration_PS2007_Data_Validation_Snapshot.[Proj Start Date] or
      Migration_PS2003_Data_Validation_Snapshot.[Proj Finish Date] <>
Migration_PS2007_Data_Validation_Snapshot.[Proj Finish Date]
or (Migration_PS2003_Data_Validation_Snapshot.[Task Work] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Work]
      and ((Migration_PS2003_Data_Validation_Snapshot.[Task Work] -
Migration_PS2007_Data_Validation_Snapshot.[Task Work])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Work])/100)
      or ((Migration_PS2003_Data_Validation_Snapshot.[Task Work] -
Migration_PS2007_Data_Validation_Snapshot.[Task Work])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Work])/100)))
or (Migration_PS2003_Data_Validation_Snapshot.[Task Actual Work] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Actual Work]
    and ((Migration_PS2003_Data_Validation_Snapshot.[Task Actual Work]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Actual Work])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Actual Work])/100)
      or ((Migration_PS2003_Data_Validation_Snapshot.[Task Actual Work]
- Migration_PS2007_Data_Validation_Snapshot.[Task Actual Work])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Actual Work])/100)))
or (Migration_PS2003_Data_Validation_Snapshot.[Task Rem Work] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Rem Work]
    and ((Migration_PS2003_Data_Validation_Snapshot.[Task Rem Work]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Rem Work])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Rem Work])/100)
      or ((Migration_PS2003_Data_Validation_Snapshot.[Task Rem Work] -
Migration_PS2007_Data_Validation_Snapshot.[Task Rem Work])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Rem Work])/100)))
or    Migration_PS2003_Data_Validation_Snapshot.[Task %Complete] <>
Migration_PS2007_Data_Validation_Snapshot.[Task %Complete]
or    Migration_PS2003_Data_Validation_Snapshot.[Task %Work Complete]
      <> Migration_PS2007_Data_Validation_Snapshot.[Task % Work
Complete]
```

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```
or    Migration_PS2003_Data_Validation_Snapshot.[Task % Phys Work
Complete] <> Migration_PS2007_Data_Validation_Snapshot.[Task % Phys
Work Complete]
or (Migration_PS2003_Data_Validation_Snapshot.[Task Duration] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Duration]
    and ((Migration_PS2003_Data_Validation_Snapshot.[Task Duration]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Duration])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Duration])/100)
      or ((Migration_PS2003_Data_Validation_Snapshot.[Task Duration] -
Migration_PS2007_Data_Validation_Snapshot.[Task Duration])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Duration])/100)))
or (Migration_PS2003_Data_Validation_Snapshot.[Task Rem Duration] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Rem Duration]
    and ((Migration_PS2003_Data_Validation_Snapshot.[Task Rem
Duration]  - Migration_PS2007_Data_Validation_Snapshot.[Task Rem
Duration])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Rem Duration])/100)
      or ((Migration_PS2003_Data_Validation_Snapshot.[Task Rem
Duration] - Migration_PS2007_Data_Validation_Snapshot.[Task Rem
Duration])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Rem Duration])/100)))
or (Migration_PS2003_Data_Validation_Snapshot.[Task Actual Duration]
<> Migration_PS2007_Data_Validation_Snapshot.[Task Actual Duration]
    and ((Migration_PS2003_Data_Validation_Snapshot.[Task Actual
Duration]  - Migration_PS2007_Data_Validation_Snapshot.[Task Actual
Duration])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Actual Duration])/100)
      or ((Migration_PS2003_Data_Validation_Snapshot.[Task Actual
Duration] - Migration_PS2007_Data_Validation_Snapshot.[Task Actual
Duration])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Actual
Duration])/100)))
or (Migration_PS2003_Data_Validation_Snapshot.[Task Cost] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Cost]
    and ((Migration_PS2003_Data_Validation_Snapshot.[Task Cost]   -
Migration_PS2007_Data_Validation_Snapshot.[Task Cost])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Cost])/100)
      or ((Migration_PS2003_Data_Validation_Snapshot.[Task Cost] -
Migration_PS2007_Data_Validation_Snapshot.[Task Cost])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Cost])/100)))
or (Migration_PS2003_Data_Validation_Snapshot.[Task Fixed Cost]   <>
Migration_PS2007_Data_Validation_Snapshot.[Task Fixed Cost]
    and ((Migration_PS2003_Data_Validation_Snapshot.[Task Fixed Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Fixed Cost])
```

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```
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Fixed Cost])/100)
      or ((Migration_PS2003_Data_Validation_Snapshot.[Task Fixed Cost]
- Migration_PS2007_Data_Validation_Snapshot.[Task Fixed Cost])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Fixed Cost])/100)))
or (Migration_PS2003_Data_Validation_Snapshot.[Task Actual Cost] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Actual Cost]
    and ((Migration_PS2003_Data_Validation_Snapshot.[Task Actual Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Actual Cost])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Actual Cost])/100)
      or ((Migration_PS2003_Data_Validation_Snapshot.[Task Actual Cost]
- Migration_PS2007_Data_Validation_Snapshot.[Task Actual Cost])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Actual Cost])/100)))
or (Migration_PS2003_Data_Validation_Snapshot.[Task Rem Cost] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Rem Cost]
    and ((Migration_PS2003_Data_Validation_Snapshot.[Task Rem Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Rem Cost])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Rem Cost])/100)
      or ((Migration_PS2003_Data_Validation_Snapshot.[Task Rem Cost] -
Migration_PS2007_Data_Validation_Snapshot.[Task Rem Cost])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Rem Cost])/100)))
or (Migration_PS2003_Data_Validation_Snapshot.[Task Ovt Cost] <>
Migration_PS2007_Data_Validation_Snapshot.[Task Ovt Cost]
      and ((Migration_PS2003_Data_Validation_Snapshot.[Task Ovt Cost]
      - Migration_PS2007_Data_Validation_Snapshot.[Task Ovt Cost])
      > ((@Work_Ratio * Migration_PS2003_Data_Validation_Snapshot.[Task
Ovt Cost])/100)
      or ((Migration_PS2003_Data_Validation_Snapshot.[Task Ovt Cost] -
Migration_PS2007_Data_Validation_Snapshot.[Task Ovt Cost])
       < ((@Work_Ratio*-1)*
Migration_PS2003_Data_Validation_Snapshot.[Task Ovt Cost])/100)))
      )
      and Migration_PS2003_Data_Validation_Snapshot.[Task UID]
      = Migration_PS2007_Data_Validation_Snapshot.[Task ID]
      and Migration_PS2003_Data_Validation_Snapshot.[Task Type] =
          Migration_PS2007_Data_Validation_Snapshot.[Task Type]
      order by Migration_PS2003_Data_Validation_Snapshot.[Project
Name],

      Migration_PS2007_Data_Validation_Snapshot.[Task ID]
```

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Migration Script 8:

```
/*-------------------------------------------------------------------
-------------------
-- Script A8: Compares workspaces associated with projects pre-
migration (2003) and Post-Migration (2007) ----
-- This script shows the workspaces that have not been re-linked
and/or converted in the 2007 environment after migration
--
*********************************************************************
********************************** --
*/
USE ProjectServer_Migration_Data_Validation
-----------------------------------------------------------------
-- List of projects with workspaces missing in 2007
-- These workspaces should be re-linked manually after migration
-----------------------------------------------------------------
select distinct [PROJ_NAME] AS 'List of Projects with Missing
Workspaces in the Project Server 2007 Published database. Re-Link them
manually'
from  dbo.Migration_PS2003_ProjectWorkspaces
where replace([PROJ_NAME], '_Published', '') not in
      (select [PROJ_NAME] from dbo.Migration_PS2007_ProjectWorkspaces)
```

Migration Script 9:

```
-------------------------------------------------------------------
--------
/* Pre-Migration Steps from Project 2007 SP2 to Project 2010
VME Script 12
-------------------------------------------------------------------
-------*/

-------------------------------------------------------------------
--------
/* Check Project 2007 Version: Must be SP2 + October CU = ??
-------------------------------------------------------------------
-------*/
USE ProjectServer_Draft
select Version
as 'Project Server 2007 SP2 + Oct09CU Version Must Be 12.0.6520.5000
or Higher. If not, upgrade to SP2 + Oct2009 CU'
, timestamp
from dbo.Versions
go
-------------------------------------------------------------------
------------------------
/* Display the projects not saved or published since the installation
of SP2 + December 09 CU?
```

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```
-----------------------------------------------------------------------
------------------------*/
select Distinct PROJ_NAME AS 'List of Projects Not Saved and Published
Since the Installation of Service Pack2'
,PROJ_PROP_AUTHOR, PROJ_LAST_SAVED, WPROJ_LAST_PUB
from dbo.MSP_PROJECTS
where PROJ_TYPE = 0
and ((dbo.MSP_PROJECTS.PROJ_LAST_SAVED < (SELECT MAX(TimeStamp) FROM
dbo.Versions))
OR (dbo.MSP_PROJECTS.WPROJ_LAST_PUB < (SELECT MAX(TimeStamp) FROM
dbo.Versions)))
GROUP BY PROJ_NAME,PROJ_PROP_AUTHOR, PROJ_LAST_SAVED, WPROJ_LAST_PUB
Order by PROJ_NAME
go
-----------------------------------------------------------------------
--------
/* Display the Lookup tables using reserved names in 2010
This query is to be run against the Published database of Project
Server 2007
-----------------------------------------------------------------------
-------*/
USE ProjectServer_Published
select LT_NAME
AS 'List of Lookup Table names with Reserved Names. These names must
be changed before proceeding with the Upgrade'
from dbo.MSP_LOOKUP_TABLES
WHERE LT_NAME IN
('Department',
'Project Impact',
'Relative Importance',
'Sample Areas Impacted',
'Sample Primary Objective')
-- Cost Type, Health, RBS and State are standard in 2007
go
-----------------------------------------------------------------------
--------
/* Display the Custom Fields using reserved names in 2010
This query is to be run against the Published database of Project
Server 2007
-----------------------------------------------------------------------
-------*/
USE ProjectServer_Published
select MD_PROP_NAME
AS 'List of Custom Fields names with Reserved Names. These names must
be changed before proceeding with the Upgrade'
from dbo.MSP_CUSTOM_FIELDS
WHERE MD_PROP_NAME IN
('Flag Status',
'Project Departments',
'Project Impact',
'Relative Importance',
'Resource Departments',
```

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```
'Sample Approved Finish Date',
'Sample Approved Start Date',
'Sample Areas Impacted',
'Sample Assumptions',
'Sample Business Need',
'Sample Compliance Proposal',
'Sample Goals',
'Sample Post Implementation Review Date',
'Sample Post Implementation Review Notes',
'Sample Primary Objectives',
'Sample Proposal Cost',
'Sample Proposed Finish Date',
'Sample Proposed Start Date')
go
-----------------------------------------------------------------------
-----------------------------------
/* Displays Existing OWC Views in 2007 that need to be migrated to
Excel Services in Project Server 2010
-----------------------------------------------------------------------
-----------------------------------*/
select WVIEW_NAME AS 'List of PWA Data Analysis OWC Views to Migrate
to Excel Services in Project Server 2010'
FROM dbo.MSP_WEB_VIEW_REPORTS
WHERE WVIEW_OWC_PIVOT_XML is not null
OR WVIEW_OWC_CHART_XML is not null

-----------------------------------------------------------------------
--------
/* Displays User Accounts with Forms Auth Login Names > 249 Ch. -- on
2007
-----------------------------------------------------------------------
-------*/
select RES_NAME AS 'List of FBA accounts with Names > 249 Ch. Shorten
the Resource Names below'
FROM dbo.MSP_RESOURCES
WHERE RES_IS_WINDOWS_USER = 0
AND (Select LEN(RES_NAME)) > 249
go
-----------------------------------------------------------------------
--------
/* Display Team Names with no Lookup Tables and a Value -- on 2007
-----------------------------------------------------------------------
-------*/
select TEXT_VALUE AS 'List of Team Names with values and NO Lookup
Tables. Create a LT for these Teams'
FROM dbo.MSP_RES_CUSTOM_FIELD_VALUES, dbo.MSP_CUSTOM_FIELDS,
dbo.MSP_LOOKUP_TABLES
WHERE dbo.MSP_RES_CUSTOM_FIELD_VALUES.CUSTOM_FIELD_UID =
dbo.MSP_CUSTOM_FIELDS.MD_PROP_UID
AND MD_PROP_NAME = 'Team Name'
AND dbo.MSP_CUSTOM_FIELDS. MD_LOOKUP_TABLE_UID IS NULL
go
```

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```
-----------------------------------------------------------------------
-------------------------------------------
/* Displays Existing PWA Portfolio Analyzer OWC Views in 2003 that may
need to be migrated to Project Server 2007
-----------------------------------------------------------------------
-------------------------------------------*/
USE Project2003SourceDB
select WVIEW_NAME AS 'List of PWA Portfolio Analyzer OWC Views to
Migrate to Project Server 2007'
FROM dbo.MSP_WEB_VIEW_REPORTS
WHERE WVIEW_OWC_PIVOT_XML is not null
OR WVIEW_OWC_CHART_XML is not null
```

Migration Script 10:

```
Use ProjectServer_Published

DELETE FROM dbo.MSP_LOOKUP_TABLE_LANGUAGES WHERE LT_UID NOT IN (SELECT
LT_UID FROM dbo.MSP_LOOKUP_TABLES)

DELETE FROM dbo.MSP_LOOKUP_TABLE_MASK_VALUES WHERE LT_UID NOT IN
(SELECT LT_UID FROM dbo.MSP_LOOKUP_TABLES)

DELETE FROM dbo.MSP_LOOKUP_TABLE_MASK_STRUCTURES WHERE LT_UID NOT IN
(SELECT LT_UID FROM dbo.MSP_LOOKUP_TABLES)

DELETE FROM dbo.MSP_LOOKUP_TABLE_VALUES WHERE LT_UID NOT IN (SELECT
LT_UID FROM dbo.MSP_LOOKUP_TABLES)

DELETE FROM dbo.MSP_LOOKUP_TABLE_STRUCTURES WHERE LT_UID NOT IN
(SELECT LT_UID FROM dbo.MSP_LOOKUP_TABLES)
```

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