

REVIEW LESSON

MTA Course: Database Administration Fundamentals
Lesson name: Database Administration Fundamentals 3.1a
Topic: Selecting data (One 50-minute class period)
File name: DBAdminFund_RL_3.1a

Lesson Objective:

3.1a: Select data. *This objective may include but is not limited to:* utilizing SELECT queries to extract data from one table.

Preparation Details

Prerequisite student experiences and knowledge

An understanding of managing database objects and the SELECT command are required for this review. The primary focus of this review will be on the use of the SELECT command queries and an introduction of AND and OR.

This MTA Certification Exam Review lesson is written for students who have learned about database administration. Students who do not have the prerequisite knowledge and experiences cited in the objective will find additional learning opportunities using resources such as those listed in the Microsoft® resources and Web links at the end of this review lesson.

Instructor preparation activities

None

Resources, software, and additional files needed for this lesson:

- Microsoft PowerPoint® viewer and projector
- DBAdminFund_PPT_3.1a

Teaching Guide

Essential vocabulary:

SELECT—the most-used Structured Query Language (SQL) command for selecting data from a database.

DISTINCT—a command that returns only distinct (unique) values.

WHERE—a command that specifies which row(s) to retrieve depending on the specific search criteria and the data present in the table.

ORDER BY—a command that specifies an order in which to return the rows.

AND—a command that displays a row(s) (number of rows displayed may be 0, 1 or more than 1, depending on the specific search criteria and the data present in the table) if both the first condition and the second condition are true. .

OR—a command that displays a row(s) (number of rows displayed may be 0, 1 or more than 1, depending on the specific search criteria and the data present in the table) if either first condition or the second condition is true, a command that displays a record if either the first condition or the second conditions are true.

truth table—a table showing the relationships of the Boolean logical operators AND and OR.

Lesson Sequence

Activating prior knowledge/lesson staging (5 minutes)

1. *Say:* “During our last review lesson, we looked at different uses of the SELECT command within functions and stored procedures. Today, we will once again look at the SELECT command and some built-in support for basic queries.”

Lesson activity (35 minutes)

Review the lesson concepts using the PowerPoint presentation DBAdminFund_PPT_3.1a.

Assessment/lesson reflection (10 minutes)

Use the three questions on the last slide of the presentation to conduct a class discussion. The questions also can be used for a formal evaluation if desired. The use of small whiteboards works very well as a lesson reflection tool for this activity.

Microsoft resources and Web links

Faculty Connection Academic Resource Center

(<http://www.microsoft.com/education/facultyconnection/ARC/ResourceCenter.aspx?c1=en-us&c2=0>)

SQL Commands

(<http://www.sqlcommands.net/sql+distinct/>)