

70-778

Analyzing and Visualizing Data by Using Microsoft Power BI

Exam number: 70-778

Exam title: Analyzing and Visualizing Data by Using Microsoft Power BI

Publish date:

GUID:

Language(s) this exam will be available in:

Audience: BI professionals, data analysts

Technology:

Credit type (example: MCSA):

Exam provider (VUE, Certiport, or both):

Exam Design

Audience Profile

Candidates for this exam should have a good understanding of how to use Power BI to perform data analysis. Candidates should be proficient in connecting to data sources and in performing data transformations. Candidates should be able to model and visualize data by using Microsoft Power BI Desktop and to configure dashboards by using the Power BI service. Candidates should also be proficient in implementing direct connectivity to Microsoft SQL Azure and to SQL Server Analysis Services (SSAS) and implementing data analysis in Microsoft Excel. Candidates may include BI professionals, data analysts, and other roles responsible for creating reports by using Power BI.

Skills measured

Note: This document shows tracked changes that are effective as of March 1, 2018.

Consuming and Transforming Data By Using Power BI Desktop

Connect to data sources.

May include: Connect to databases, files, folders; import from Excel; connect to SQL Azure, Big Data, SQL Server Analysis Services (SSAS), ~~and Power Query~~

Perform transformations.

May include: Design and implement basic and advanced transformations; apply business rules; change data format to support visualization

Cleanse data.

May include: Manage incomplete data; meet data quality requirements

Modeling and Visualizing Data

Create and optimize data models.

May include: Manage ~~data~~ relationships; optimize models for reporting; manually type in data; use Power Query

Create calculated columns, calculated tables, and measures.

May include: Create DAX ~~queries/formulas~~ for calculated columns, calculated tables, and measures; Use What If parameters

~~Create-Measure~~ performance by using KPIs, gauges and cards.

May include: calculate the actual; calculate the target; calculate actual to target; configure values for gauges; use the format settings to manually set values

Create hierarchies.

May include: Create ~~date~~ hierarchies; create business hierarchies based on business needs; ~~resolve~~ add columns to tables to support desired hierarchy ~~issues~~

Create and format interactive visualizations.

May include: Select a visualization type; configure page layout and formatting; ~~set up~~ configure interactions between visual ~~relationships~~; configure duplicate pages; handle categories that have no data; ~~set up~~ configure default summarization ~~ies~~ and data categories of columns; position, align, and sort visuals; enable and integrate R visuals; format ~~calculated~~ measures; Use bookmarks and themes for reports

Manage custom reporting solutions.

May include: ~~Power BI API~~; Configure and access Microsoft Power BI Embedded; enable developers to create and edit ~~dashboards-reports~~ through custom applications; enable developers to embed ~~dashboards-reports~~ in applications; use the Power BI API to push data

into a Power BI dataset~~authenticate a Power BI web application~~; enable developers to create custom visuals

Configure Dashboards, **Reports and Apps** in the Power BI Service

~~Publish visualizations~~Access on-premises data-

May include: ~~Connect to the Power BI service; publish connections to services by using SQL Server Analysis Services (SSAS); to a data source by using a data gateway; publish reports to the Power BI service from Power BI Desktop; edit Power BI Service reports by using Power BI desktop~~publish visualizations including data

Configure a dashboard.

May include: Add text and images; filter dashboards; dashboard settings; customize the URL and title; enable natural language queries

Publish ~~dashboards~~and embed reports.

May include: Publish to web; publish to Microsoft SharePoint; publish reports to a Power BI Report Server~~to SQL Server Reporting Services (SSRS)~~

Configure security for dashboards, reports and apps.

May include: Create a security group by using the Admin Portal; ~~share~~configure access to dashboards and app workspaces with users or security groups; configure the export and sharing setting of the tenant~~integrate with Microsoft OneDrive for Business~~; configure Row-Level Security; ~~configure gateways~~

Configure ~~organizational content pack~~apps and apps workspaces.

May include: Create and configure an app workspace~~a content pack~~; publish an app content pack; ~~edit update a published app~~a content pack; package dashboards and reports as apps