MCSA: BI Reporting – Skills Measured

NOTE: The bullets that appear below each of the skills measured are intended to illustrate how we are assessing that skill. This list is not definitive or exhaustive.

NOTE: In most cases, exams do NOT cover preview features, and some features will only be added to an exam when they are GA (General Availability).

Exam 70-778: Analyzing and Visualizing Data with Microsoft Power BI

Consuming and Transforming Data By Using Power BI Desktop (20-25%)

Connect to data sources

- connect to databases, files, folders; import from Excel; connect to SQL Azure, Big Data, SQL Server Analysis Services (SSAS)

Perform transformations

- design and implement basic and advanced transformations; apply business rules; change data format to support visualization

Cleanse data

- manage incomplete data; meet data quality requirements

Modeling and Visualizing Data (45-50%)

Create and optimize data models

- manage relationships; optimize models for reporting; manually type in data; use Power Query

Create calculated columns, calculated tables, and measures

- create DAX formulas for calculated columns, calculated tables, and measures; use What If parameters

Measure performance by using KPIs, gauges and cards

- calculate the actual; calculate the target; calculate actual to target; configure values for gauges; use the format settings to manually set values

Create hierarchies

- create date hierarchies; create hierarchies based on business needs; add columns to tables to support desired hierarchy

Create and format interactive visualizations

- select a visualization type; configure page layout and formatting; configure interactions between visual; configure duplicate pages; handle categories that have no data; configure default summarization and data category of columns; position, align, and sort visuals; enable and integrate R visuals; format measures; Use bookmarks and themes for reports

Manage custom reporting solutions

- configure and access Microsoft Power BI Embedded; enable developers to create and edit reports through custom applications; enable developers to embed reports in applications; use the Power BI API to push data into a Power BI dataset; enable developers to create custom visuals

Configure Dashboards, Reports and Apps in the Power BI Service (25-35%)

Access on-premises data

- connect 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

Configure a dashboard

- add text and images; filter dashboards; dashboard settings; customize the URL and title; enable natural language queries

Publish and embed reports

- publish to web; publish to Microsoft SharePoint; publish reports to a Power BI Report Server

Configure security for dashboards, reports and apps

- create a security group by using the Admin Portal; configure access to dashboards and app workspaces; configure the export and sharing setting of the tenant; configure Row-Level Security

Configure apps and apps workspaces

- create and configure an app workspace; publish an app; update a published app; package dashboards and reports as apps

Exam 70-779: Analyzing and Visualizing Data with Microsoft Excel

Consume and Transform Data by Using Microsoft Excel (30-35%)

Import from data sources

- connect to and import from databases, files, and folders; connect to Microsoft SQL Azure, Big Data, SQL Server Analysis Services (SSAS), and Power Query; import supported file types; import from other Excel workbooks; link to data from other sources

Perform data transformations

- design and implement basic and advanced transformations, apply business rules, change data format to support visualization, filter data, format data

Cleanse data

- manage incomplete data; handle data received as a report; remove unnecessary rows, columns, and data; remove repeating headers

Model Data (35-40%)

Create and optimize data models

- manage data relationships, optimize models for reporting, manually enter data, perform Get & Transform, create automatic relationships, create manual relationships

Create calculated columns, measures, and tables

- create DAX queries, create DAX formulas, create Excel formulas

Create performance KPIs

- calculate the actual value, calculate the target value, calculate actual to target values

Create hierarchies

- create date hierarchies, create business hierarchies, resolve hierarchy issues

Visualize Data (30-35%)

Create and manage PivotTables

- format PivotTables and PivotCharts, format calculated measures, filter data, group and summarize data

Create and manage PivotCharts

- select a chart type, format calculated measures, filter data; group and summarize data, use slicers

Interact with Power BI

- import Excel data from Power BI, manipulate Excel data in Power BI