Preparing for Power Bl Exam 70-778

STRONG-BRIDGE ENVISION EXPERIENCE MATTERS

Today's Agenda

Preparing for Power BI Exam 70-778

01 🚣



Introduction and Overview 5 min

02



Exam Structure

5 min

03



Exam Content

10 min

04



Preparation & Review

20 min

05



Tutorials

20 min



ABOUT ME

HERE IS SOME INFO ABOUT ME



PAUL DELLAGROTTE Senior Consultant at SBE

Personal Website
https://pdellagrotte.github.io/

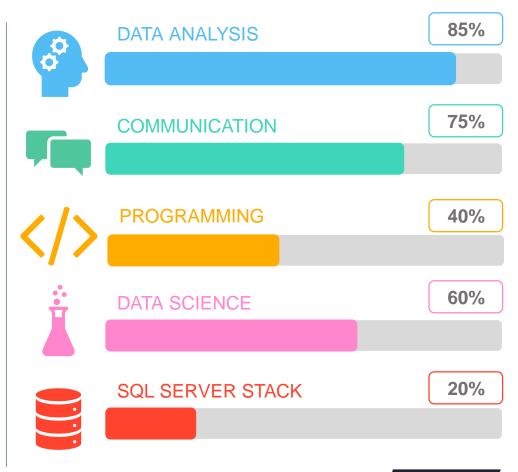
PROFILE

10+ years as an analytics professional in a variety of industries including Defense and Management Consulting. Began career in finance and quickly developed a passion for data. Experience in strategy development, data modeling, process improvement and financial analysis.

EDUCATION

Northwestern University (2016) MS Predictive Analytics

Plymouth State University (2008) BS Finance

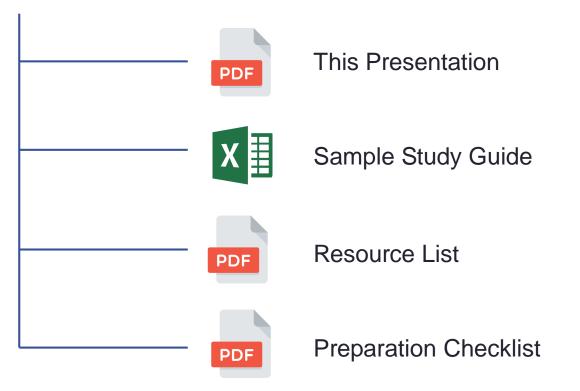








https://github.com/pdellagrotte/SQLSaturday-813-Boston





Introduction and Overview

Who should take the Exam?



- Candidates should have a good understanding of how to perform data analysis
- Candidates should understand both Power BI Desktop and Services
- BI professionals, data analysts, and other roles responsible for creating reports by using Power BI

What does the Exam cover?



- Consuming and Transforming
 Data By Using Power BI
 Desktop
- Modeling and Visualizing Data
- Configure Dashboards, Reports and Apps in the Power BI Service

What are the preparation options?



- Free Resources
- Microsoft Course
- Books



01



Introduction

02



Exam Structure

Today's Agenda

Preparing for Power BI Exam 70-778

03



Exam Content

04



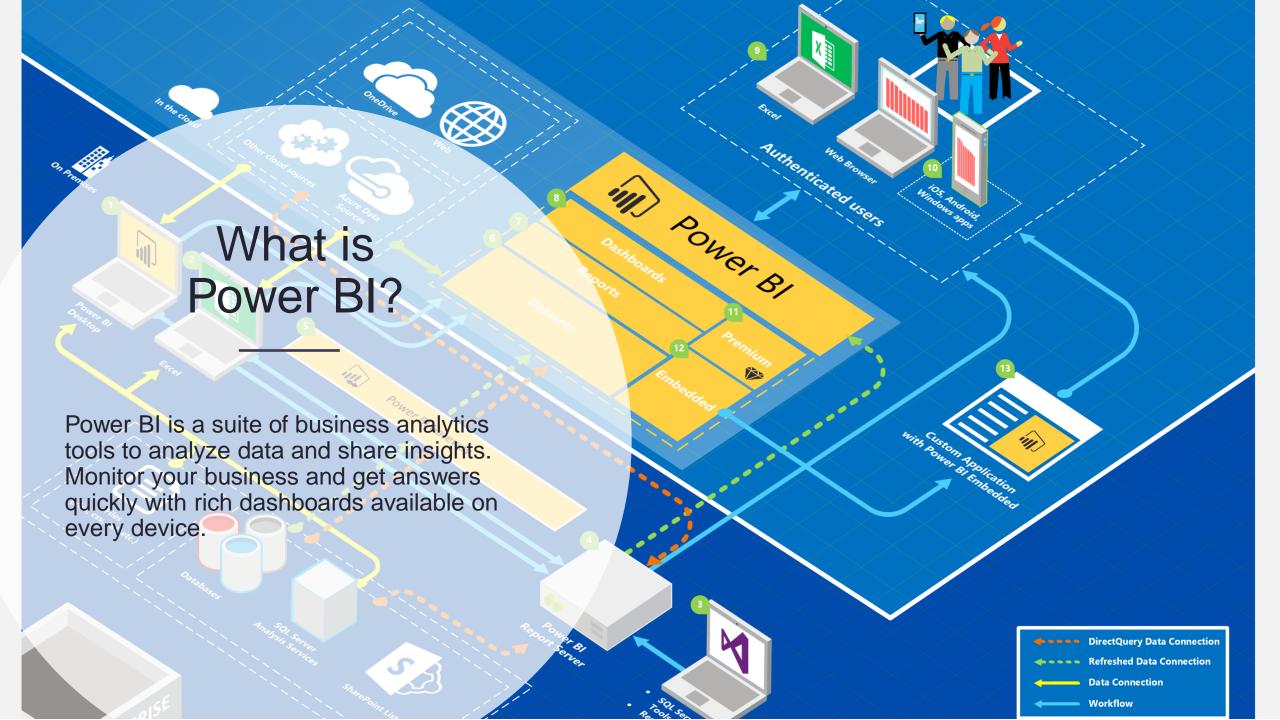
Preparation & Review

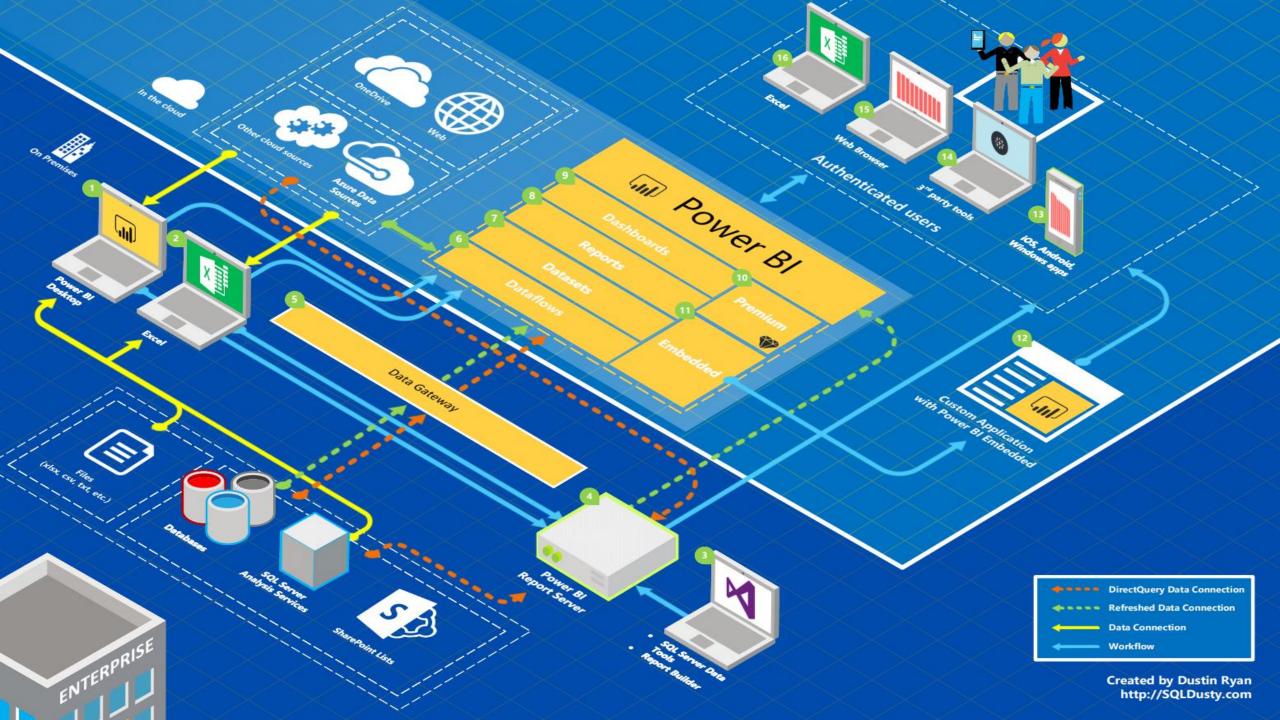
05

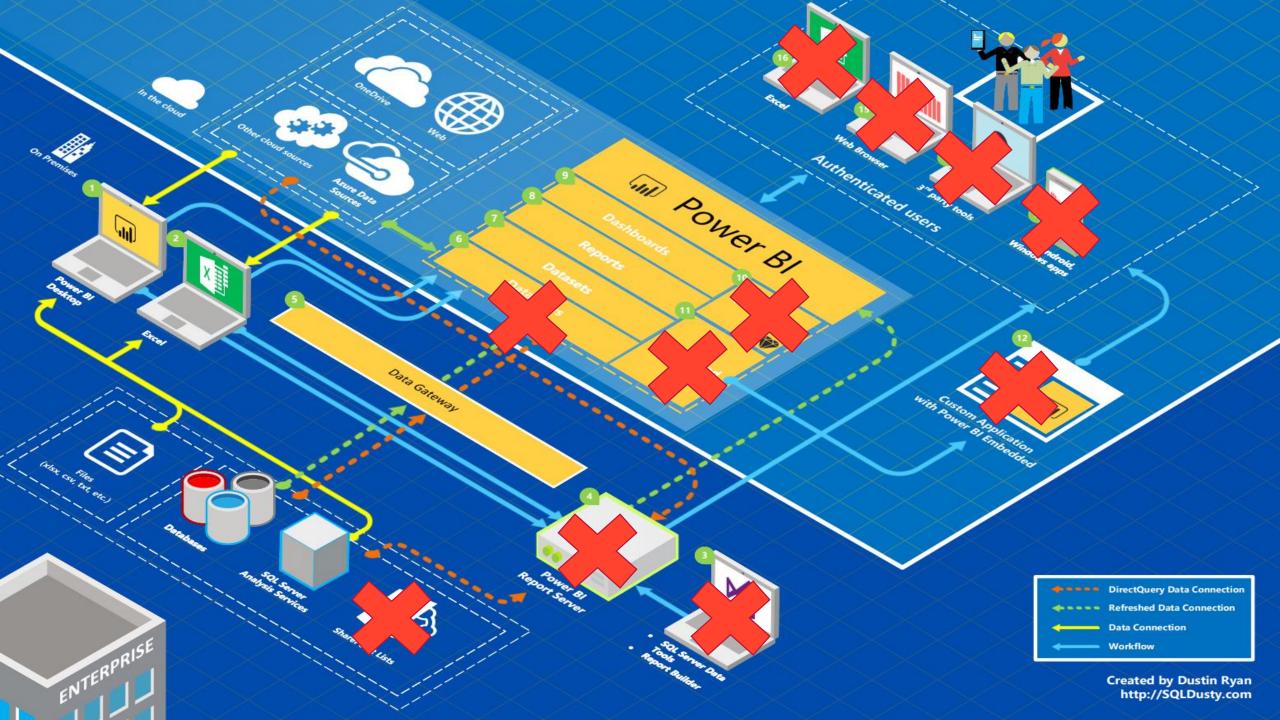


Tutorials



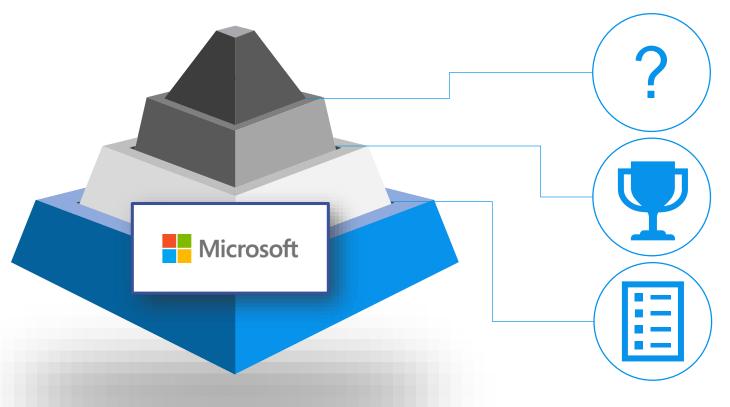






Exam Structure





Question Types

T / F, Multiple Choice, Drag & Drop

Best Answer Multiple Choice

Select the response that best fits when more than one is correct

Case Study

Presents a business case and multiple questions are presented that reference it



01



Introduction

02



Exam Structure

Today's Agenda

Preparing for Power BI Exam 70-778

03



Exam Content

04



Preparation & Review

05



Tutorials



Exam Content

Consuming and
Transforming Data
by Using Power BI
Desktop



Modeling and Visualizing Data



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





Consuming and Transforming Data by Using Power BI Desktop



- Connect to data sources
- Perform transformations
- Cleanse data



Modeling and Visualizing Data

- Create and Optimize Data Models
- Calculated Columns, calculated tables, and measures
- Measure performance with KPI, gauges, and cards
- Create hierarchies
- Format interactive visualizations
- Manage custom reporting solutions



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

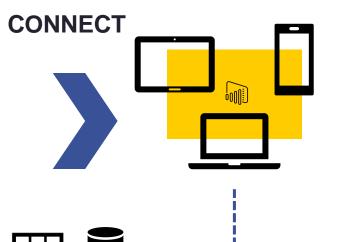


- Create calculated columns, calculated tables, and measures
- Measure performance by using KPIs, gauges and cards
- Create hierarchies
- Create and format interactive visualizations
- Manage custom reporting solutions



Power BI Desktop





TRANSFORM

- Apply Business Rules
- Manage incomplete Data



MODEL / DAX

- Measures and Calculated Columns
- **Calculated Tables**







Excel /CSV, SQL Server (SSAS)



- **Upload Reports**
- Edit in Service





- Visualizations
- **KPIs**
- Hierarchies









- **RLS**
- **Security Groups**
- **User Access**













U



Introduction

02



Exam Structure

Today's Agenda

Preparing for Power BI Exam 70-778

03



Exam Content

04



Preparation & Review

05

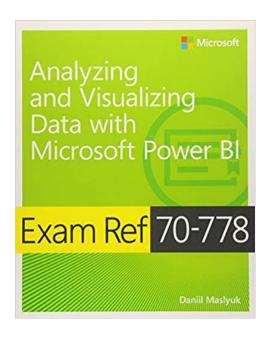


Tutorials

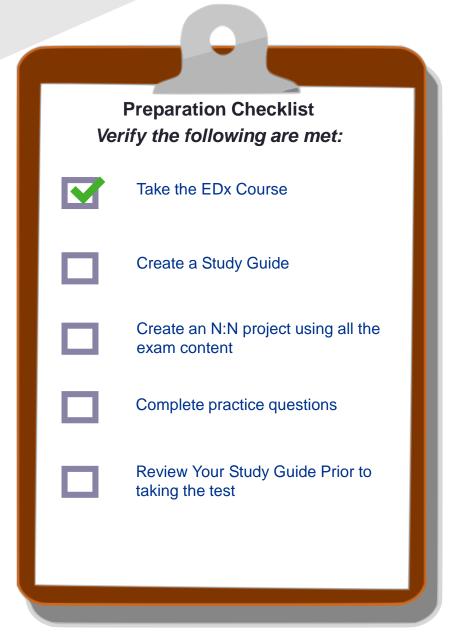


What are the Preparation Options?









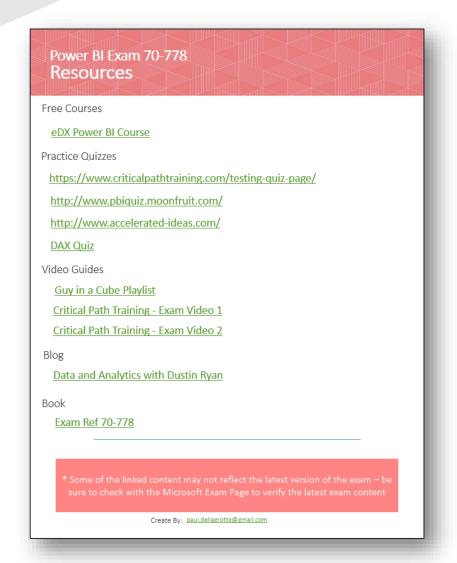


Preparation Checklist

https://github.com/pdellagrotte/SQLSaturday-813-Boston

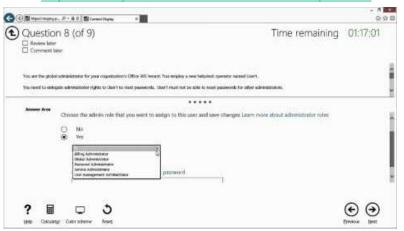


Resources



Microsoft Exam Structure

https://www.youtube.com/watch?v=7CvYGpSVbkA







Review









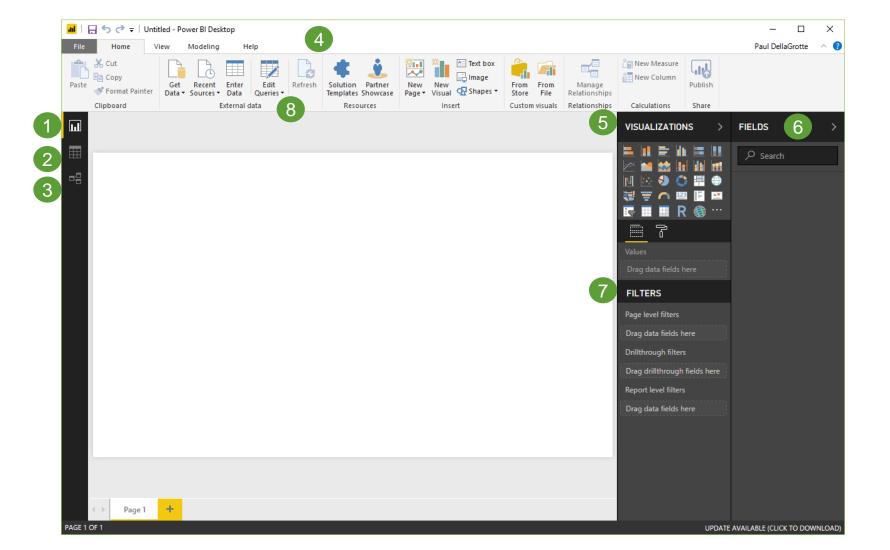




Navigation

- 1. Reports
- 2. Data View
- 3. Relationships
- 4. Ribbon
- Visualizations
- 6. Fields

- 7. Filters
- 8. Launch Power Query











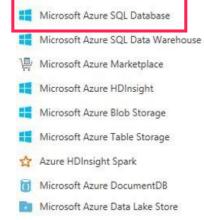




Connecting to Data

Files Excel CSV XML Text

Azure Services



Databases SQL Server Database SQL Server Analysis Services Database Coracle Database IBM DB2 Database MySQL Database PostgreSQL Database Sybase Database Teradata Database SAP HANA Database

Other Sources

af appFigures

☐ GitHub

☐ MailChimp

☐ QuickBooks Online

☐ SweetIQ

☐ Twilio

☐ Zendesk

☐ Marketo

☐ Spark







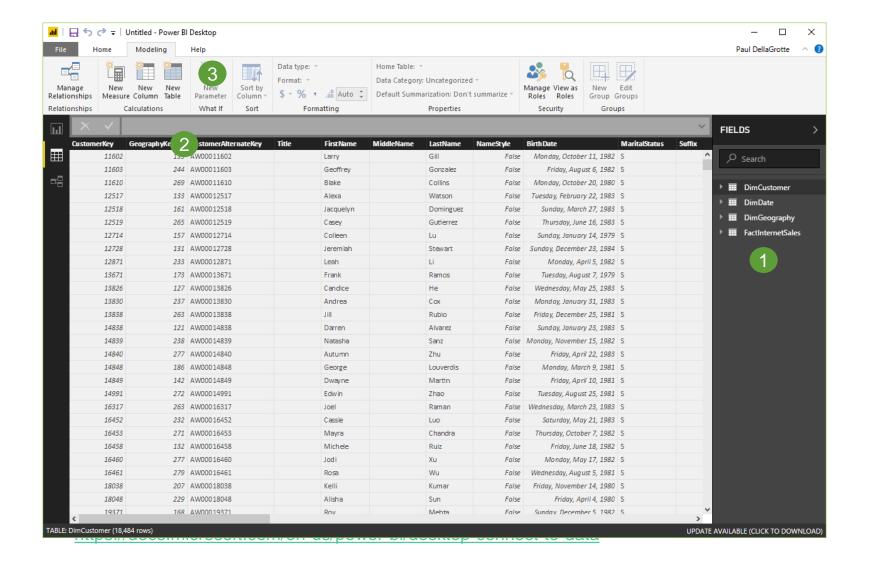






Data View

- Tables
- 2. Fields
- 3. Calculated Columns & Measures









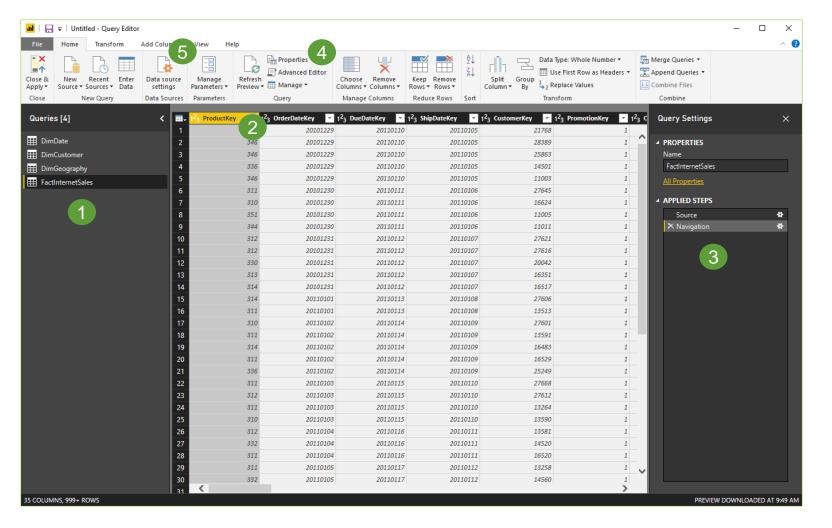






Power Query

- Query Manager
- 2. Field and Data Type
- 3. Stepwise Transformations
- 4. Advanced Editor 'M' Code
- 5. Data Source Settings Manage Connection String









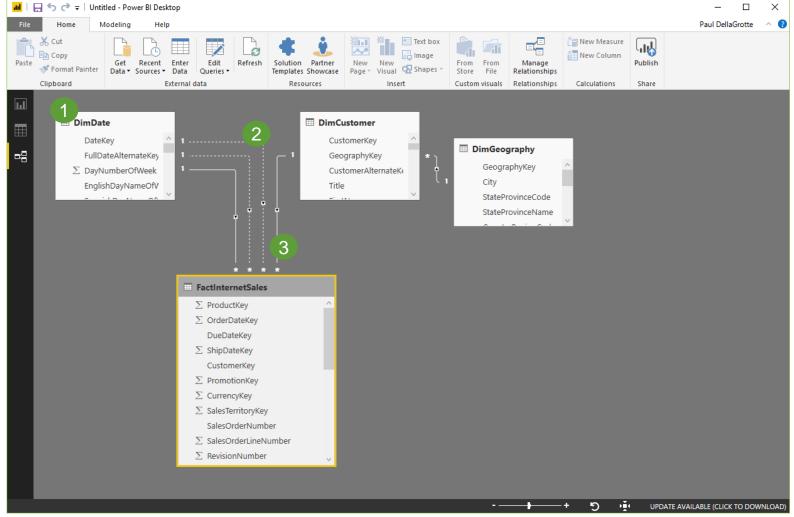






Relationships

- 1. Table
- 2. Inactive Relationship
- 3. Active Relationship





Relationships

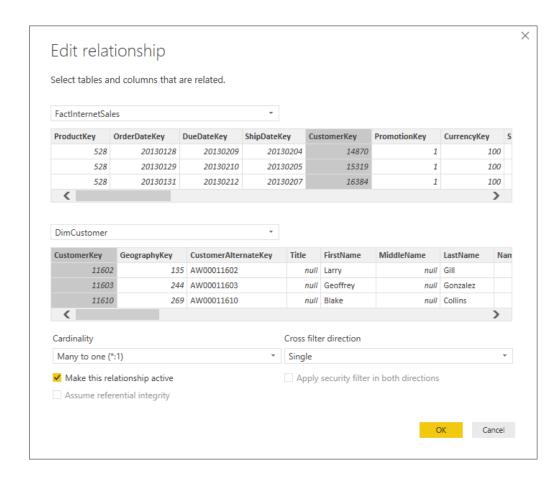
















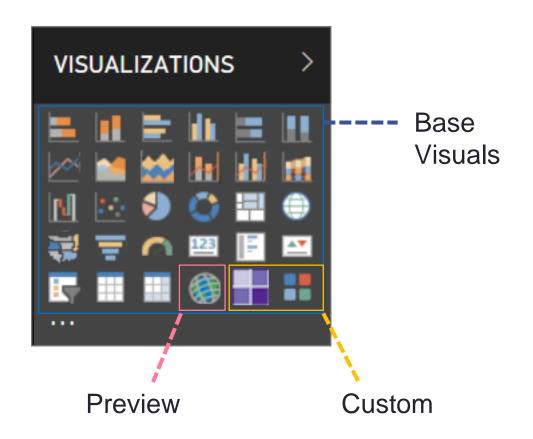


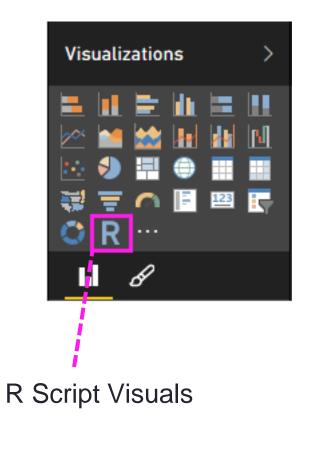






Reports









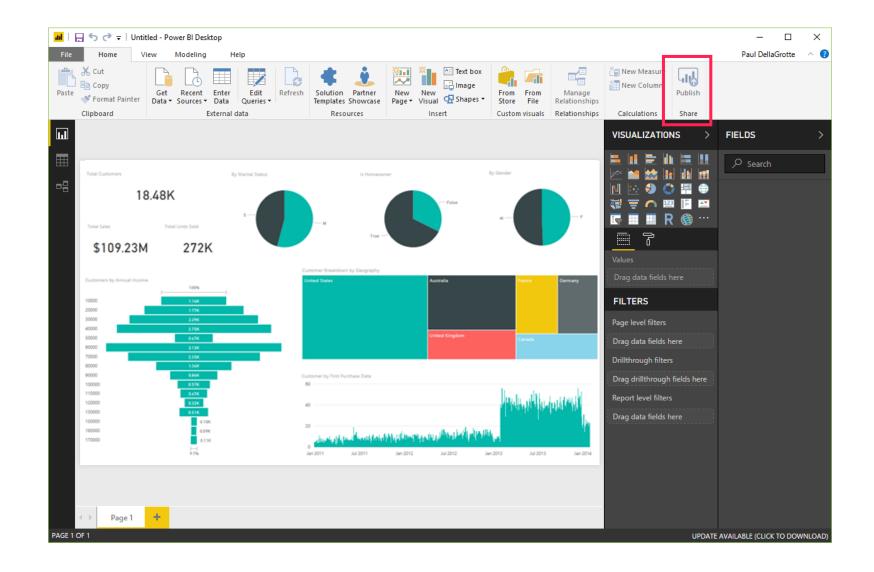








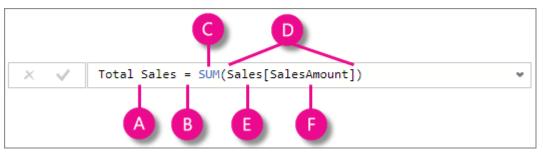
Publishing to Service



DAX

WHAT IS DAX (Data Analysis eXpression)?

- Formula AND Query Language
- Used to create Calculated Columns and Measures
- Evaluated based on Row and Filter Context
- Calculated Column: Evaluated Immediately by Row
- Measure: Evaluated at Query Time

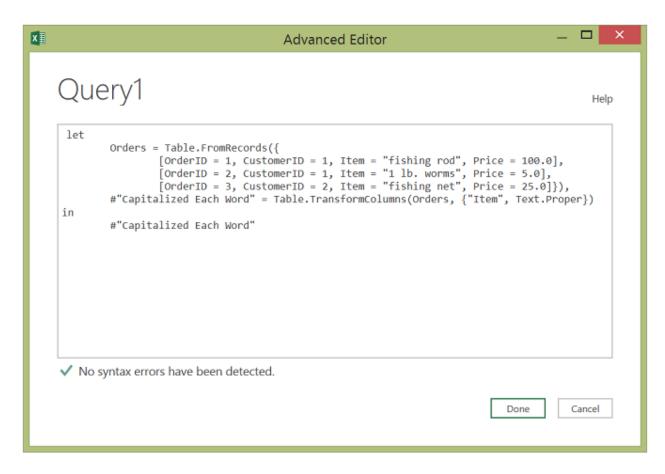


https://docs.microsoft.com/en-us/power-bi/desktop-quickstart-learn-dax-basics

- A. Name
- B. Initialize
- C. Function
- D. Parameter(s)
- E. Table
- F. Column



M

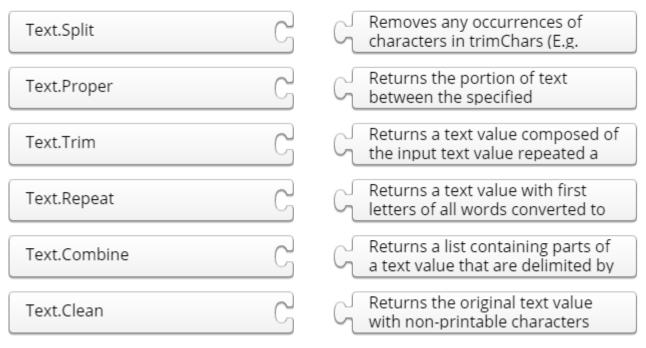


https://docs.microsoft.com/en-us/powerquery-m/quick-tour-of-the-power-query-m-formula-language



Type of M Question

Match the following functions in M (Power Query Language) with their description/definition



https://docs.microsoft.com/en-us/powerquery-m/text-functions



Question – True or False



Using the new bookmarking features in the report designer in Power BI Desktop, you are limited to creating only one bookmark per page in a report.

Answer:

False

Question – Select all that apply



Which of the following statements are true regarding use of the Slicer visual in a Power Bl report?

- A Slicer visual is used on Power BI reports to provide the report consumer with interactive filtering behavior.
- A Slicer visual from a Power BI report can be pinned to a dashboard to make the dashboard interactive.
- A Slicer visual based on a Date column can be configured to use slider controls.
- When adding a field to the Field well of a Slicer visual, you can use either a column or a measure.

Question – Multiple Choice



Which of the following visuals is not included as part of Power BI and must be added as a custom visual?

- Waterfall
- Treemap
- Histogram
- Stacked Area Chart

01



Introduction

02



Exam Structure

Today's Agenda

Preparing for Power BI Exam 70-778

03



Exam Content

04



Preparation & Review

05



Tutorials



Tutorial Topics





Modeling & Visuals



Manage Query Groups - Create Group	Calculated Tables - DAX	Analyze in Excel
Connecting to Files in a Folder	Creating and managing Hierarchies	Sharing a dashboard
Power BI Template	Include / Exclude from Visual	Add Widget / Title
Query Dependency	Grouping / Binning fields	Create Security Group
Change Data Type	Clustering (and Machine Learning)	Row Level Security
Query Parameter	Change Default Aggregation	Change data refresh settings
Edit Data from a Custom Table	Export data from table	Featured Q&A
Connect to different data sources	Filter including Top N	Publish to Web



Thank You!

paul.dellagrotte@gmail.com

