

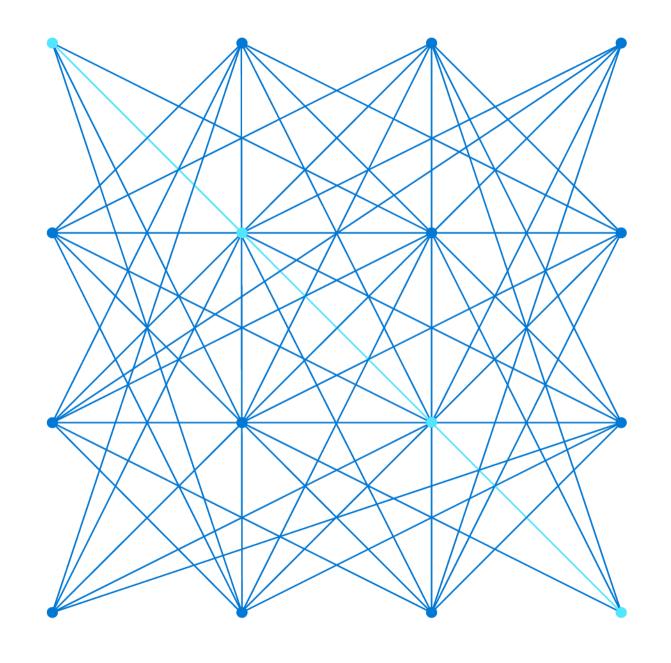
Online Role-based training resources:

Microsoft Learn

https://docs.microsoft.com/en-us/learn/

DA-100 Analyzing Data with Power BI

<Name>, <Title>



Module 2: Get Data in Power BI



Learning Objectives

You will learn the following concepts:

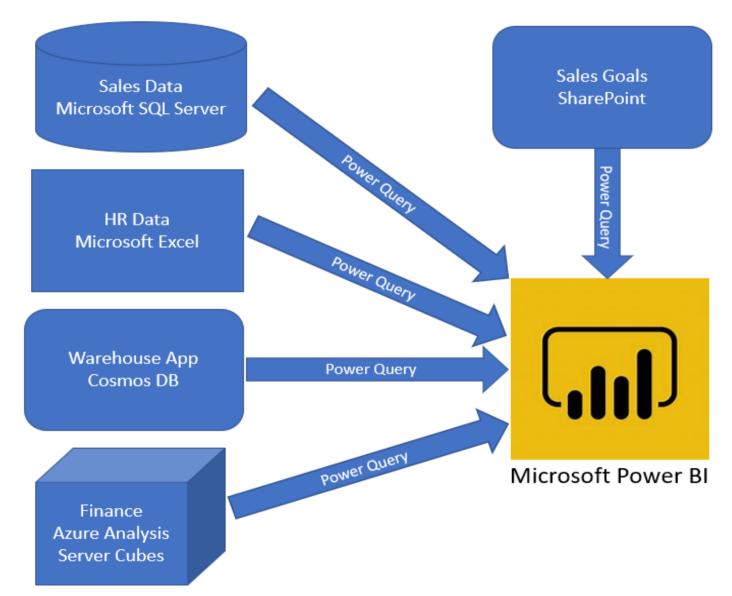
- Getting data from various data sources
- Optimizing Performance
- Resolving data errors





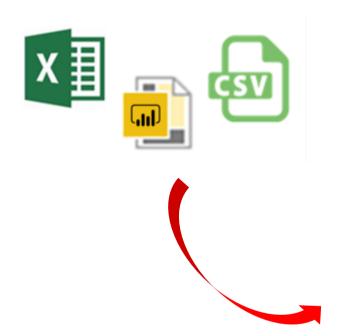
Introduction to getting data

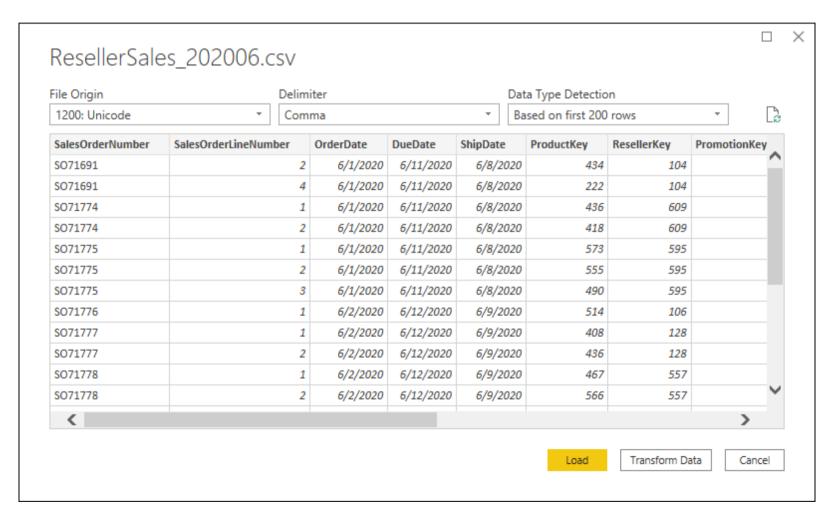
The first step in the data analysis process is identifying and getting data.





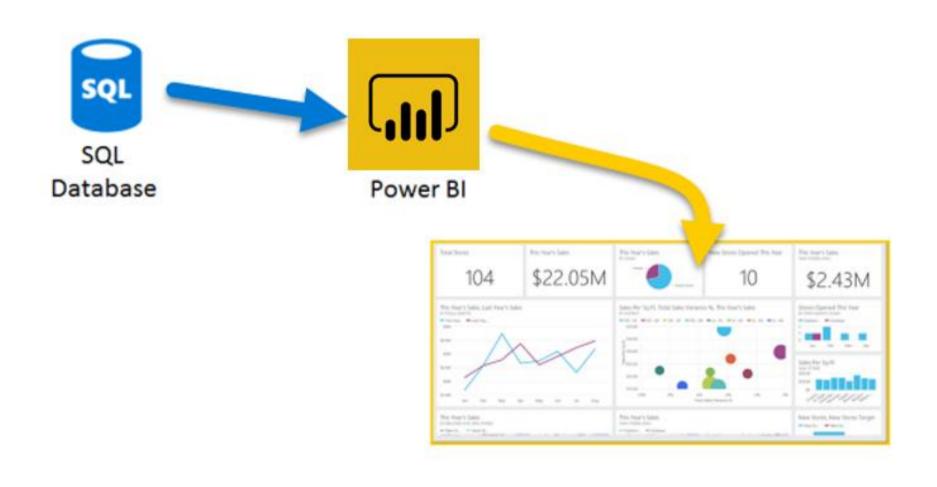
Get data from flat files





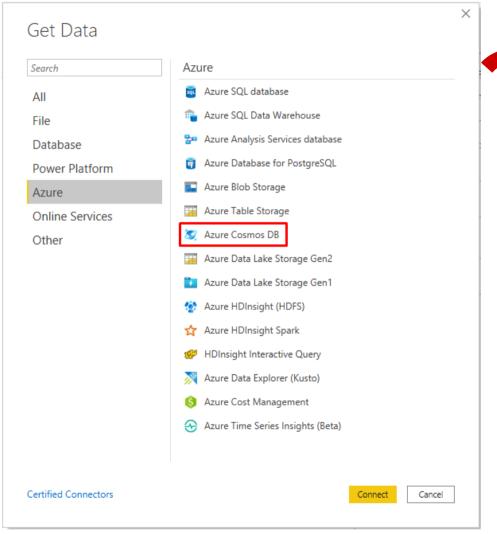


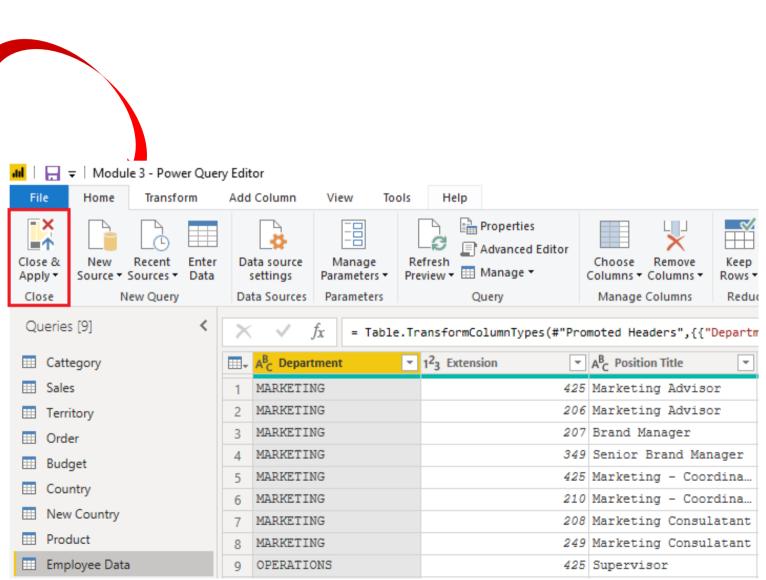
Get data from relational data sources





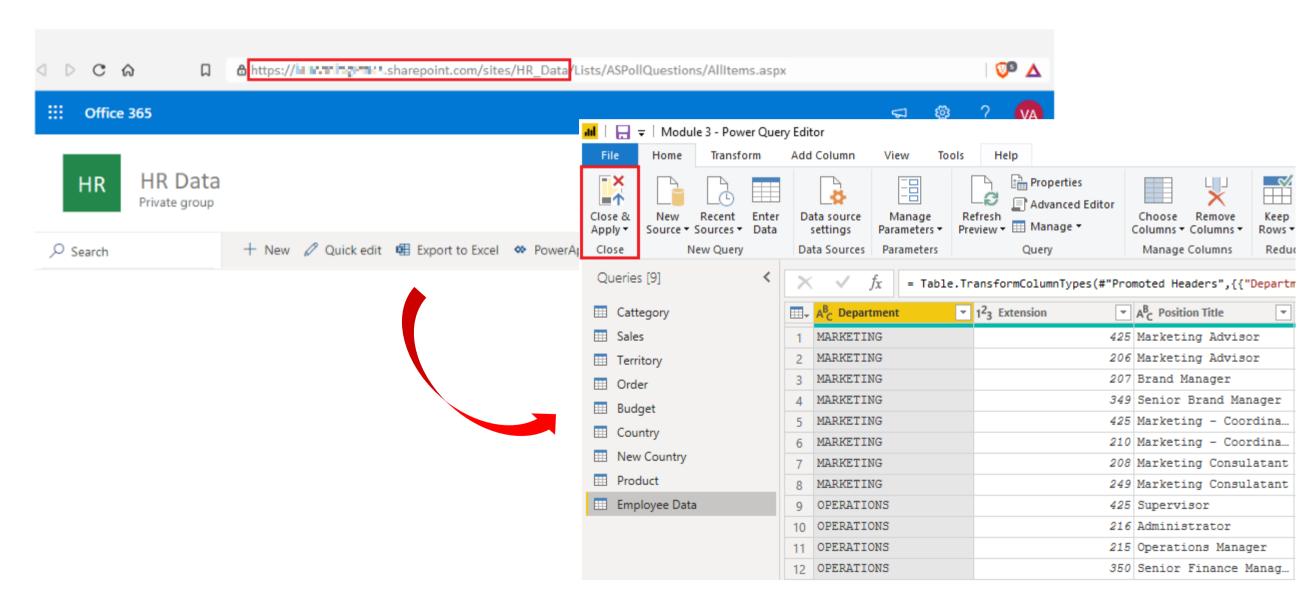
Get data from NoSQL







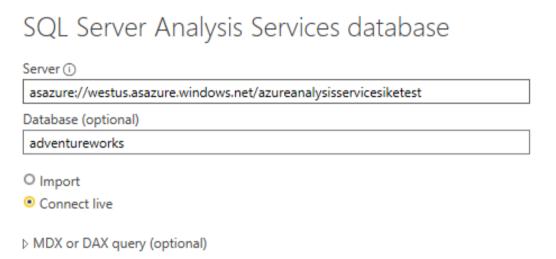
Get data from applications





Get data from Analysis Services

An analytical data engine that lets you digest data from multiple data sources and create calculations on the fly.



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OK

Cancel



Review Questions

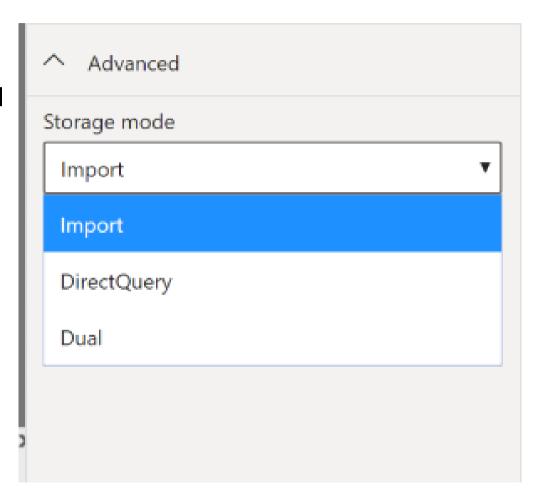
- Q01 Which query language do you use to extract data from Microsoft SQL Server?
- A01 T-SQL
- Q02 You're creating a Power BI report with data from an Azure Analysis
 Services Cube. When the data refreshes in the cube, you would like to see it
 immediately in the Power BI report. How should you connect?
- A02 Connect Live
- Q03 What can you do to improve performance when you are getting data in Power BI?
- A03 Do some calculations in the original data source.





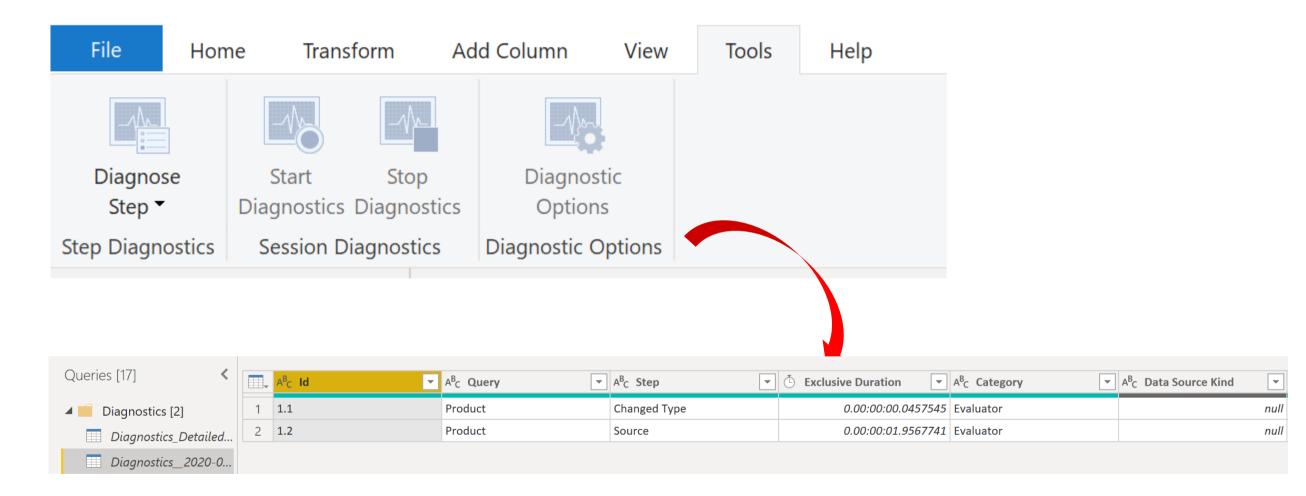
Select a Storage Mode

- Specifies the storage mode of a table and lets Power BI determine how to cache data for reports.
- Set the storage mode for each table individually.





Fix Performance Issues





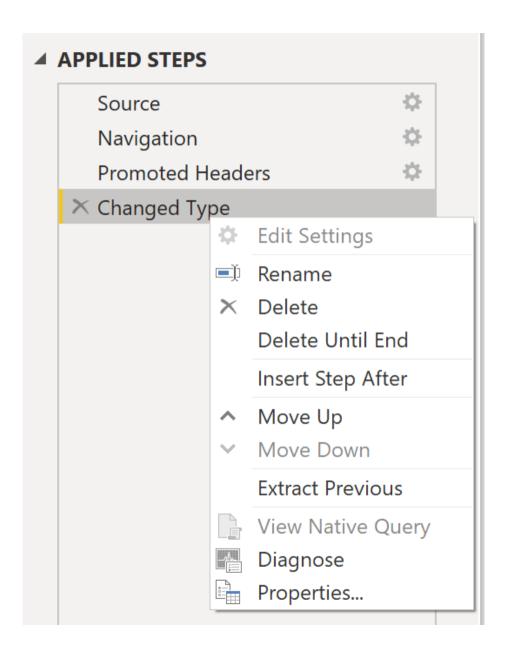
Optimize Query Performance

- Performance in Power Query depends heavily on the performance at the data source.
- Follow performance tuning guidelines of the source product.
- Some performance tuning can be done in Power BI.



Query Folding

The process that lets Power Query generate a single query statement to retrieve and transform source data.





Review Questions

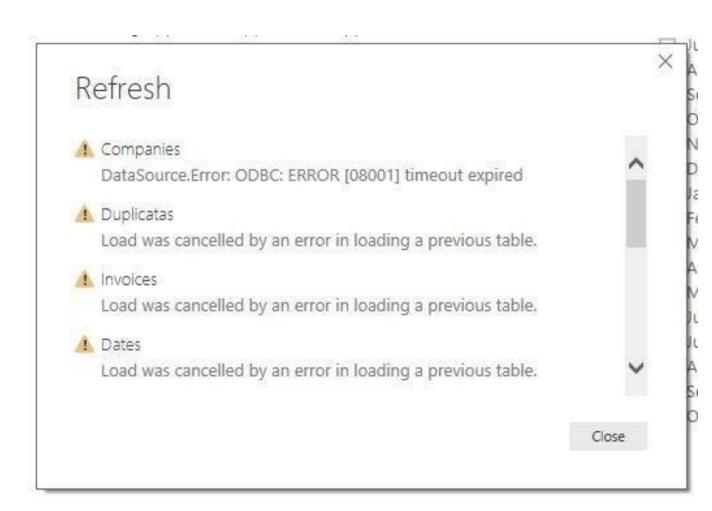
- Q01 Which storage mode leaves the data at the data source?
- A01 DirectQuery
- Q02 Which technology improves performance by generating a single query statement to retrieve and transform source data?
- A02 Query Folding





Identify and Resolve Data Import Errors

- You may encounter the following errors:
 - Query Timeout.
 - Couldn't find data formatted as a table.
 - Could not find file.
 - Data type errors.





Review Questions

- Q01 What type of import error might leave a column blank?
- A01 Data type error



Module Overview

We covered the following concepts:

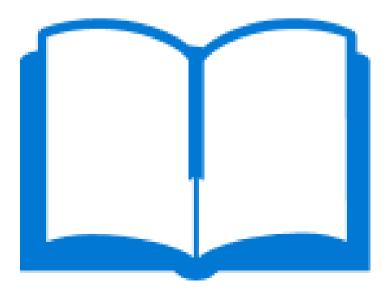
- Getting data from various data sources
- Optimizing Performance
- Resolving data errors

Lab: Preparing Data



References

- DA-100 Prepare data for analysis
 https://docs.microsoft.com/en-us/learn/modules/get-data/
- DA-100 Clean, Transform, and load data in Power BI https://docs.microsoft.com/en-us/learn/modules/clean-data-power-bi/



Azure Technical Trainer Role Based Training