

Data connections in Power BI

DATA CONNECTIONS IN POWER BI



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The importance of data

Why is data important?

- Beneficial for different sized companies and industries
- Used to support decision making:
 - Company KPIs
 - Marketing efficiency

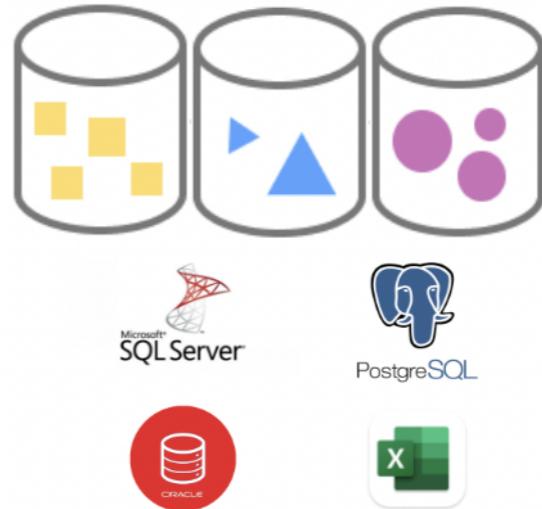
Understand company data

- Internal data:
 - Collected by the company itself
 - Relates to their own operations
- External data:
 - Collected by external companies
 - Related to more general information

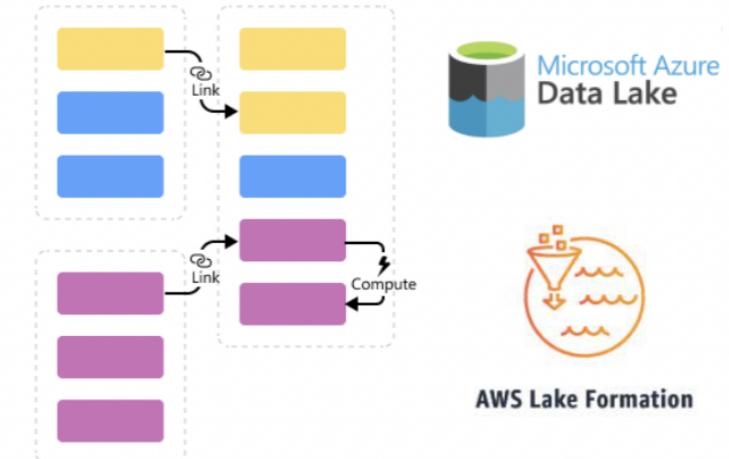
Storing data

- Data source is the original source of data
 - Database management systems (MySQL, Oracle, etc.)
 - CSV/Excel files
 - Web services
- Data lakes gather data from many different sources
- Datasets are collections of processed data in tabular form

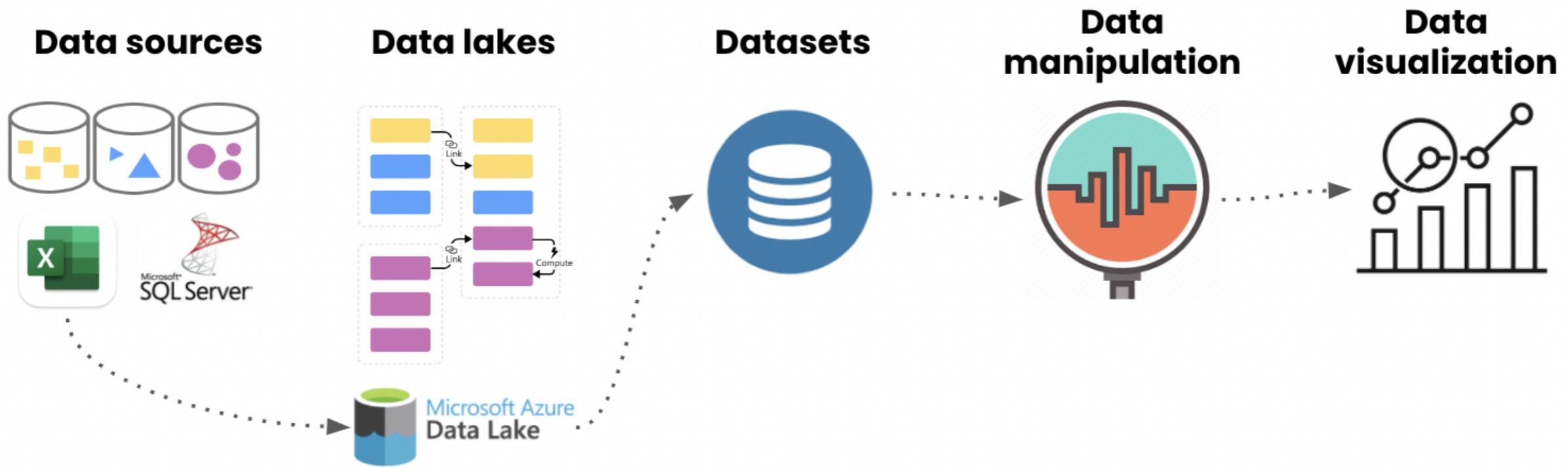
Data sources



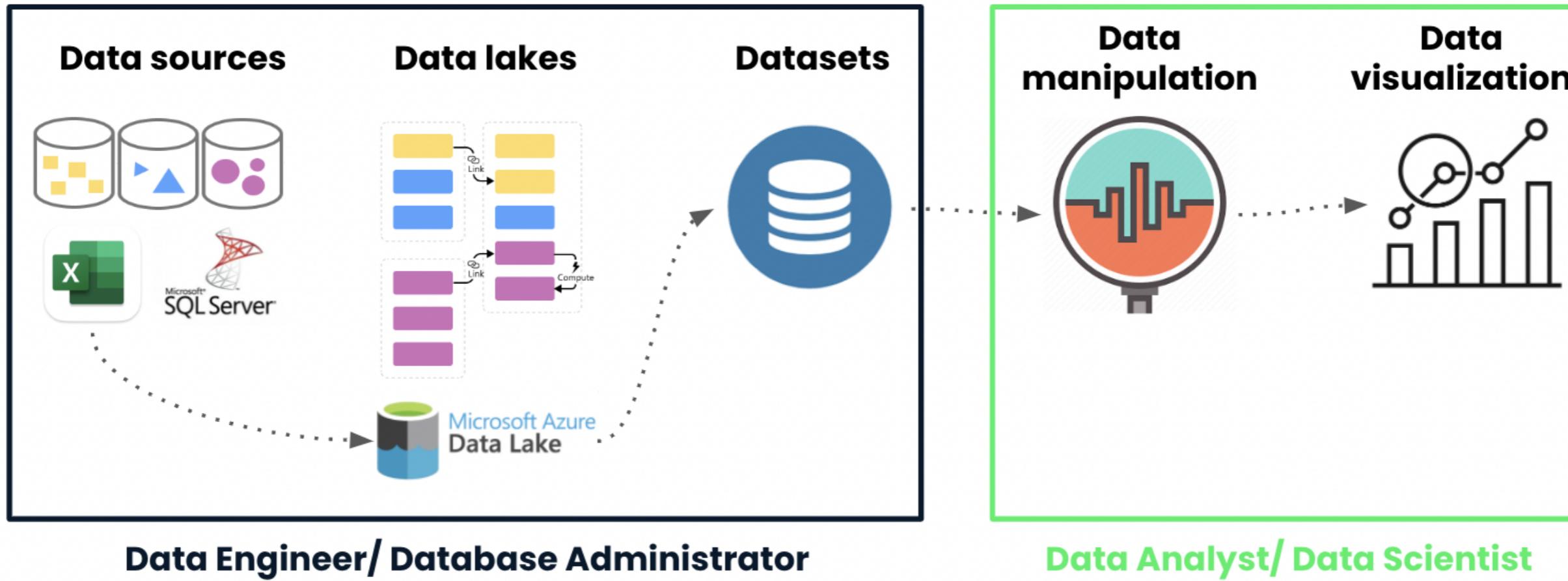
Data lakes



The flow of data



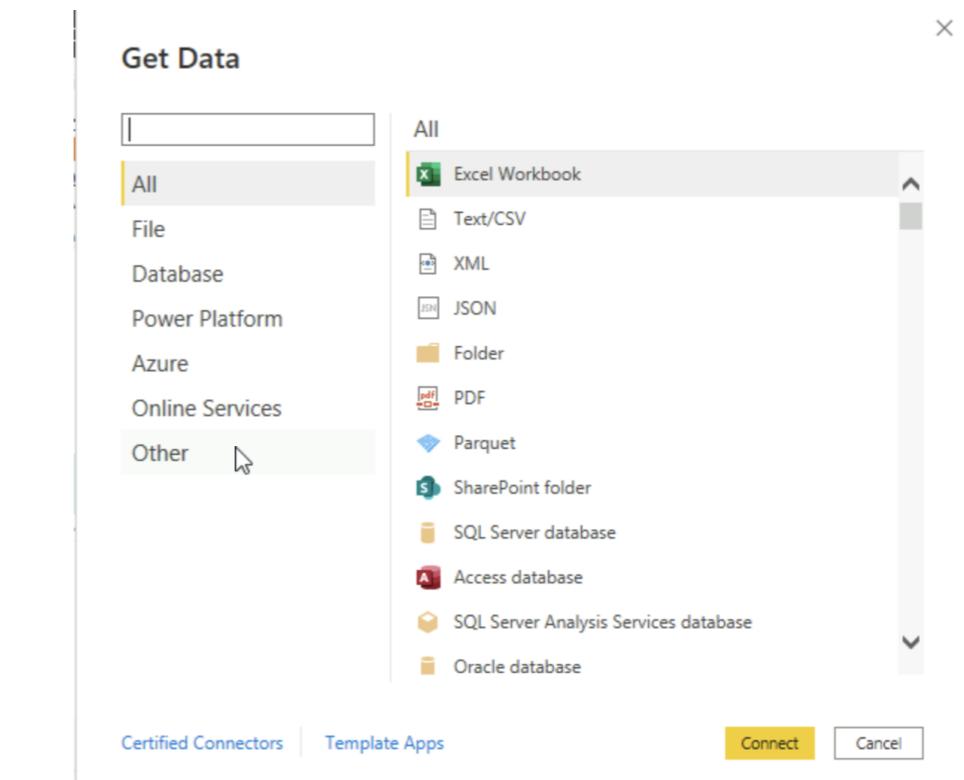
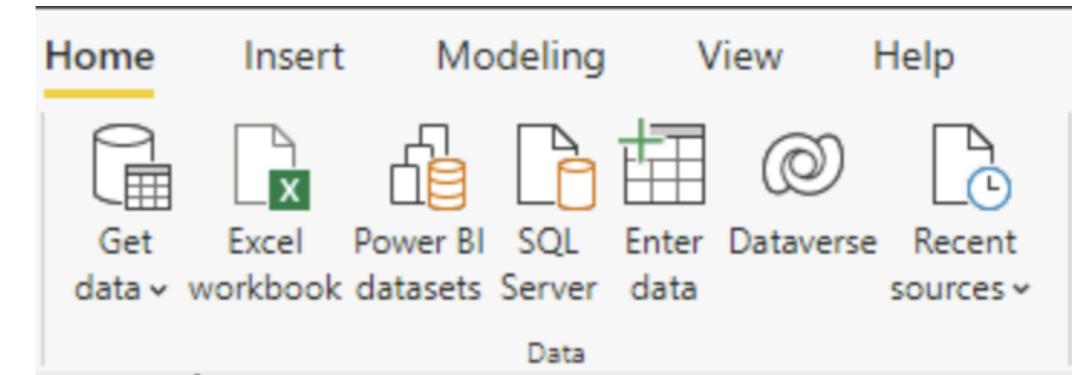
The flow of data



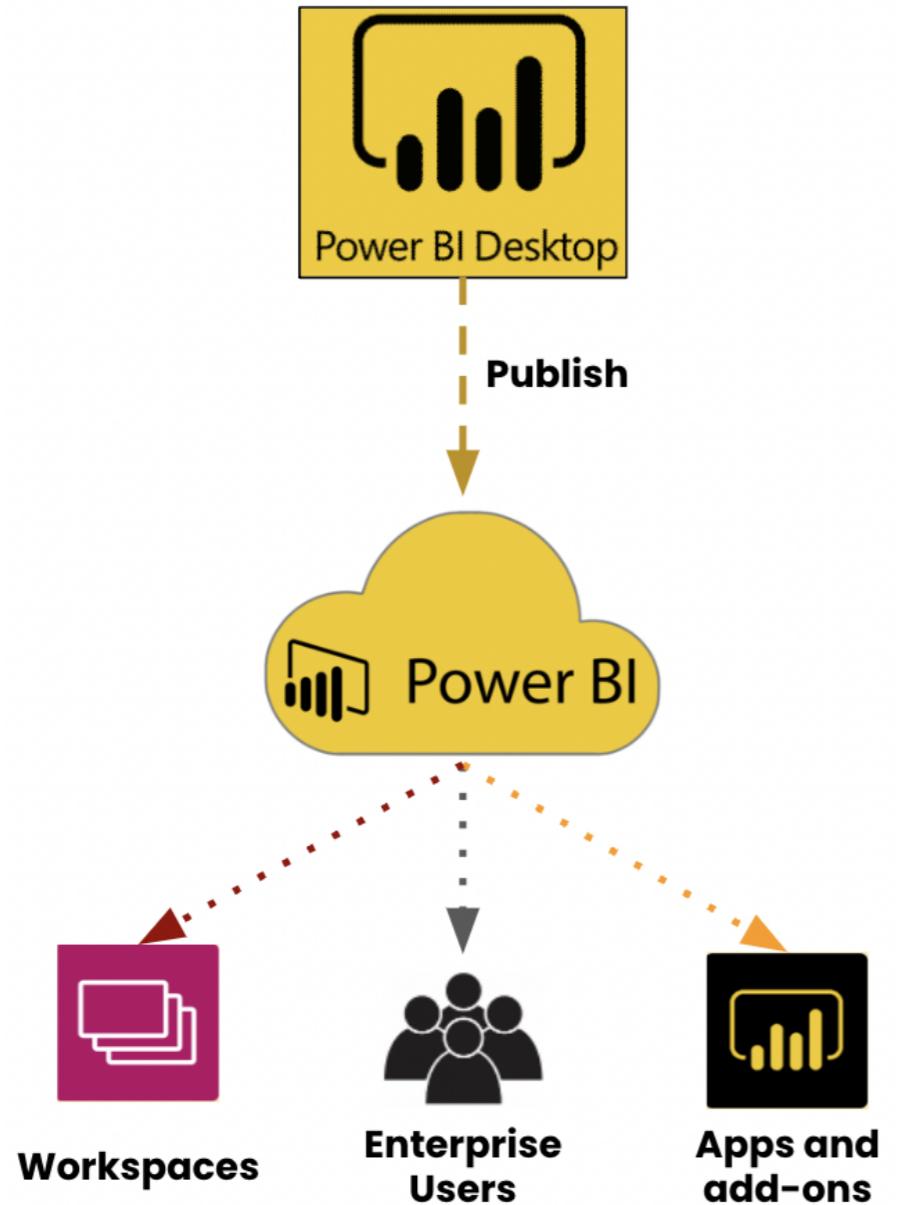
- Data engineers are involved with the first stages, while data analysts deal with the latter stages
- A logical flow of data allows for more efficient utilization of company data

Data in Power BI Desktop

- Over 100 data connections available
 - Excel files
 - Databases
 - Online Services
- Dataverse is a cloud-based storage space



Power BI Service



- SaaS (Software as a Service) version of Power BI
- Workspaces allow organization of content
- Access for entire enterprises
- Apps provide resource for reporting and analytics

Data in Power BI Service

- Share and manage company datasets and reporting
- Dashboard building capabilities
- Data gateway connections
- Scheduled refreshes

The screenshot shows the Power BI Service Home page. On the left is a navigation sidebar with the following items:

- Home (selected)
- Favorites
- Recent
- Create
- Datasets
- Goals
- Apps
- Shared with me
- Deployment pipelines
- Learn
- Workspaces
- My workspace (selected)
- Get data

The main area displays a greeting "Good afternoon, lason" and a subtitle "Find and share actionable insights to make data-driven decisions". It features a "Recommended" section with four cards: "BI Team Test" (frequently open), "My workspace", "Explore basic Power...", and "Intro—What is Power BI". Below this is a "Recent" section with tabs for "Recent", "Favorites", and "My apps". A table lists a single item: "DimEntity Test" (Dataset, opened now, in My workspace).

Power BI comparison

Power BI Desktop	Both	Power BI Service
Many data sources Transforming Shaping & modeling Measures Calculated columns Python Themes RLS creation	Reports Visualizations Security Filters Bookmarks Q&A R visuals	Some data sources Dashboards Apps & Workspaces Sharing DataFlow creation Paginated reports RLS management Gateway connections

- Desktop application useful for loading, transforming and manipulating data
- Service application has strengths in sharing different assets
- Report building and security measures available in both

Let's practice!

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Power BI Desktop connections

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Welcome to Power BI Service

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