Discovery Labs
Overview

Microsoft Fabric

Agenda

- Microsoft Fabric
- 01 – Lakehouse lab
- 02 – Data Warehouse lab
- 03 – Data Science lab
- 04 – Realtime Analytics lab

Microsoft Fabric

Data Factory

Real-Time Intelligence

Databases

Analytics

Industry Solutions

Power BI

Partner solutions

Copilot in Fabric

OneLake

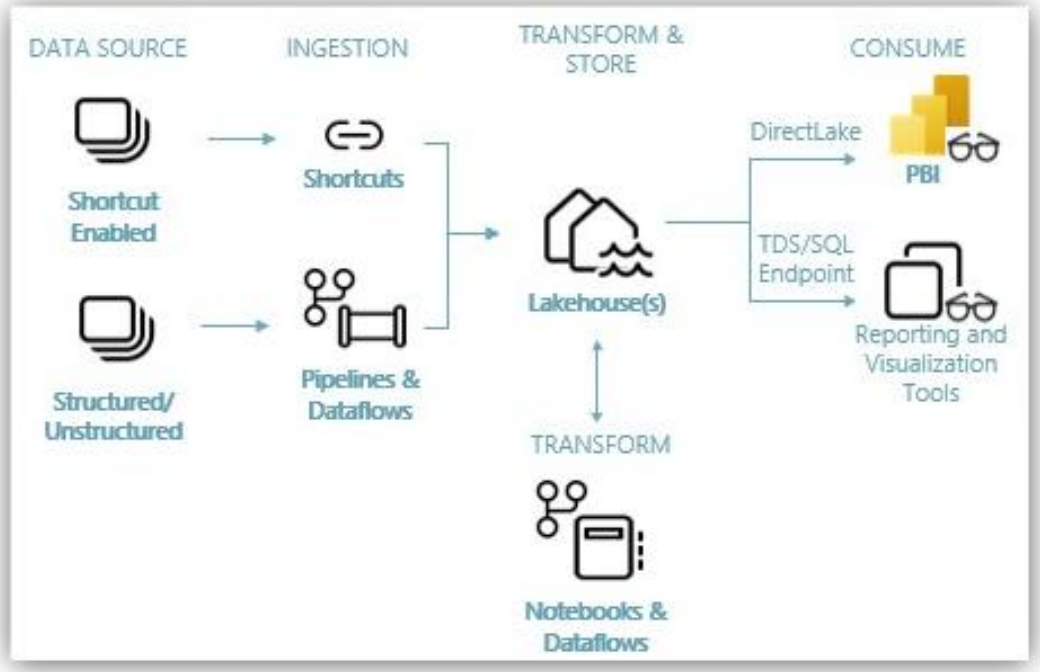
Microsoft Purview

01 – Lakehouse lab

Lab Exercises

- Create a lakehouse
- Ingest, Transform and load data into the lakehouse using Pipelines, dataflows and notebooks
- Explore OneLake, OneCopy of your data across lake mode and warehouse mode
- Connect to your lakehouse using TDS/SQL endpoint
- Create Power BI report using DirectLake – to analyze sales data across different dimensions
- Orchestrate and schedule data ingestion and transformation flow with Pipeline

Lakehouse Architecture



02 – Data Warehouse lab

Lab Exercises

·Create a data warehouse

·Ingest data from source to the data warehouse dimensional model

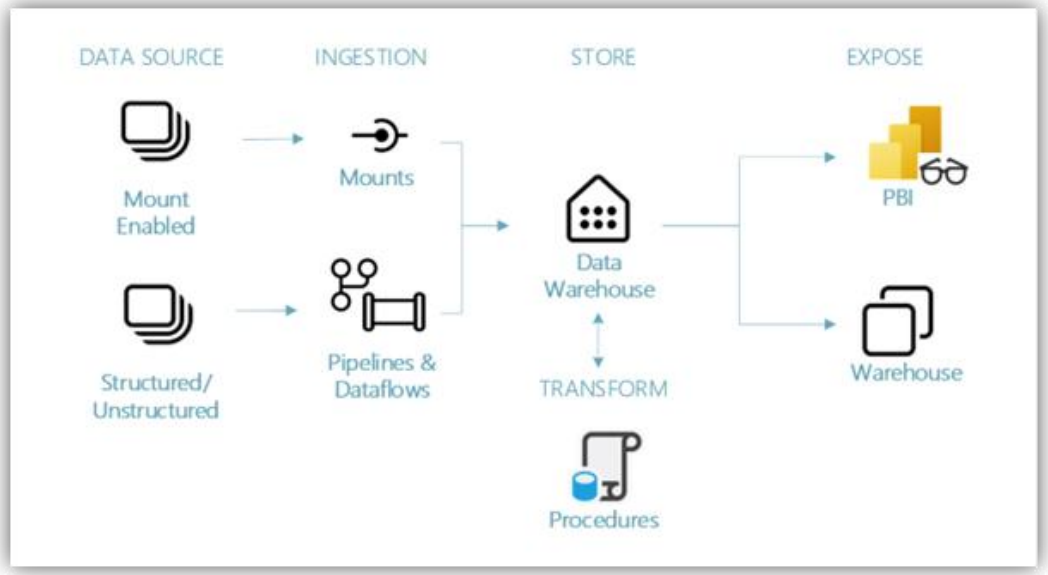
·Transform the data to create aggregated datasets using T-SQL

·Perform orchestration, data ingestion, and data transformation with pipelines

·Query the data warehouse using T-SQL and a visual query editor

·Create Power BI report using DirectLake mode to analyze the data in place

Data warehouse Architecture

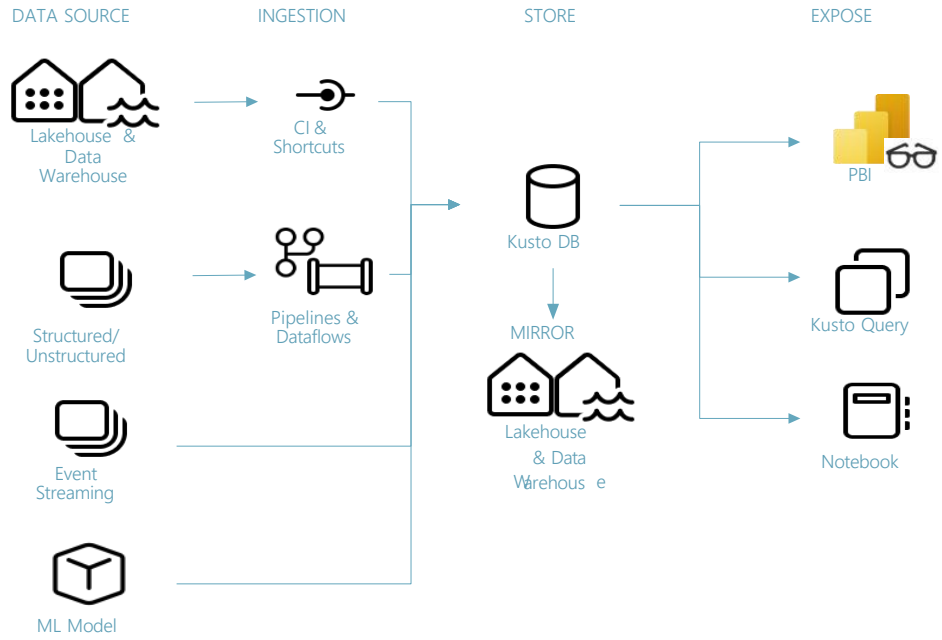


03 – Realtime Analytics lab

Lab Exercises

- Create a KQL Database
- Create Eventstream
- Stream data from Eventstream to KQL Database
- Check your data with sample queries
- Save queries as a KQL Queryset
- Create a Power BI report
- Create a OneLake shortcut

Real Time Analytics Architecture



04 – Data Science lab

Lab Exercises

·Ingesting data from an external data source.

·Data exploration and visualization.

·Data cleansing, preparation, and feature engineering.

·Model training and evaluation.

·Model batch scoring and saving predictions for consumption.

·Visualizing prediction results.

Data Science in Fabric