Data lake and data warehouse unified with Azure Synapse Analytics

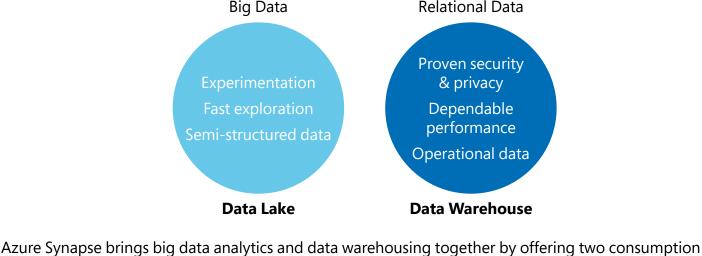
Azure Synapse brings big data analytics and data warehousing together with a unified service that offers deeply integrated Apache Spark and SQL engines, as well as two consumption models for analytics:

- Serverless queries over the data lake
- Provisioned resources for both SQL Pools and Spark Pools

Tip: Get started with Azure Synapse Analytics in four quick steps.

systems for big data analytics and data warehousing.

Prior to Azure Synapse Analytics, many businesses maintained two critical, yet independent analytics



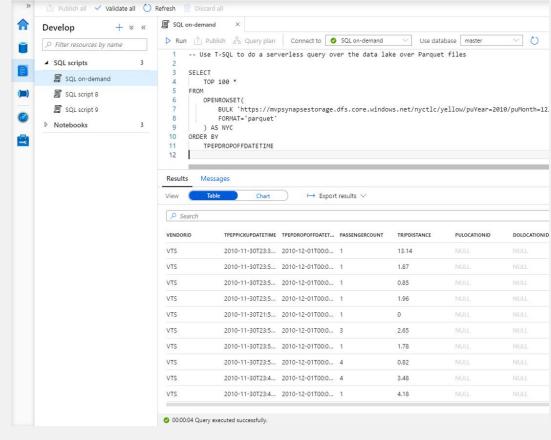
models for analytics in a single service. Here are three examples showing how to quickly go from serverless data lake to provisioned data

warehouse with Azure Synapse.

Here, Parquet files are stored in an Azure Data Lake Storage account. T-SQL syntax is used to run a

Use T-SQL to do a serverless query over the data lake over Parquet files

serverless query over the data lake over Parquet files instantly without provisioning any infrastructure.



Data

Each SQL pool has an associated database. A SQL pool can be scaled, paused, and resumed manually or automatically and can scale

warehouse (SQL pools), also using SQL

Use provisioned compute for data

from 100 Data Warehouse Units (DWU) up to 30,000 DWU. This example shows how easy it is to query tables in a SQL pool using familiar T-SQL syntax. Rapidly generate SQL scripts from the

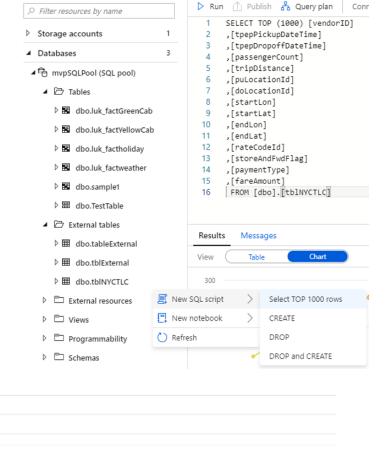
valuable insights from your data.

Rave as image ∨

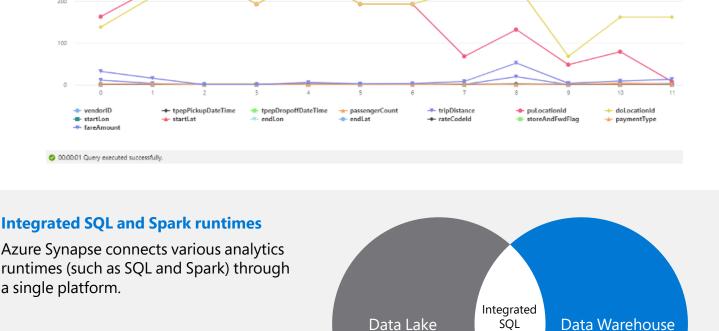
Results

Messages

Data hub for tables in the SQL pool and gain



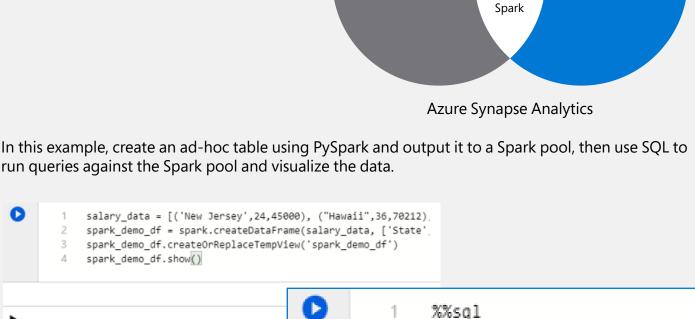
SQL pool



spark_demo_df.show()

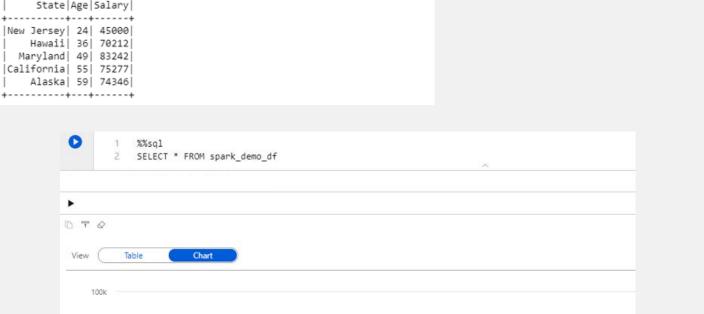
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