## Turbocharge Power Blusing



**Azure Synapse Analytics** 









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#### **Session Overview**



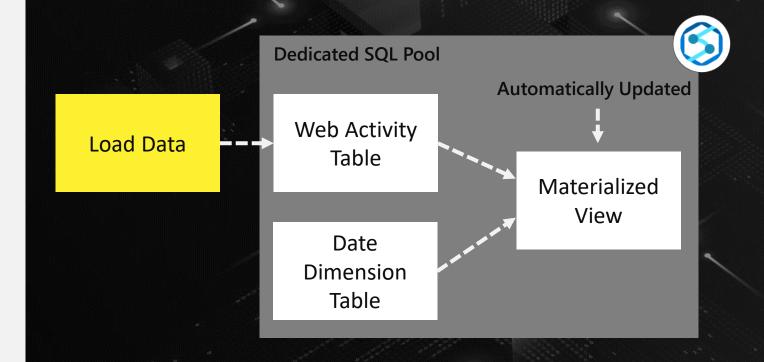
### Dedicated SQL Pools

Data is imported into the database

Materialized Views can preprocess complex data to be available for querying

#### **Materialized Views**

- We can pre-aggregate data ready for querying
- Data is physically stored ready for querying
- We still need to be mindful of data distribution





#### Serverless SQL Pools



We can use CETAS to create a pre-processed dataset that can be consumed by SQL clients (Power BI etc)

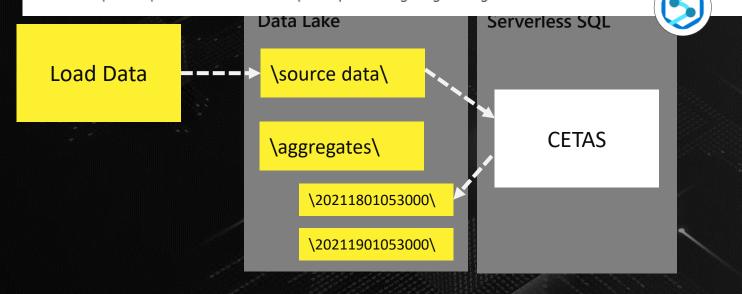
#### **Create External Table As Select**

#### Use CETAS to enhance query performance and joins

CETAS is one of the most important features available in serverless SQL pool. CETAS is a parallel operation that creates external table metadata and exports the SELECT query results to a set of files in your storage account.

You can use CETAS to materialize frequently used parts of queries, like joined reference tables, to a new set of files. You can then join to this single external table instead of repeating common joins in multiple queries.

As CETAS generates Parquet files, statistics are automatically created when the first query targets this external table. The result is improved performance for subsequent queries targeting table generated with CETAS.





#### Connection



Serverless and Dedicated SQL Pools have separate endpoints that other data services and clients can connect to and issue SQL statements

Networking : Show firewall settings

Primary ADLS Gen2 acco...: https://: .dfs.core.windows.net

Primary ADLS Gen2 file s...: users

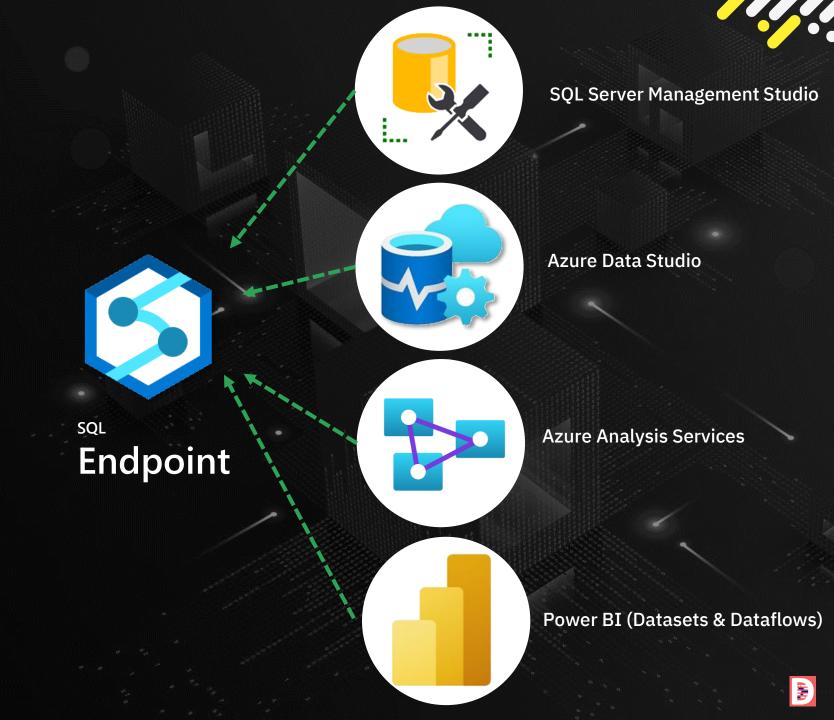
SQL admin username :

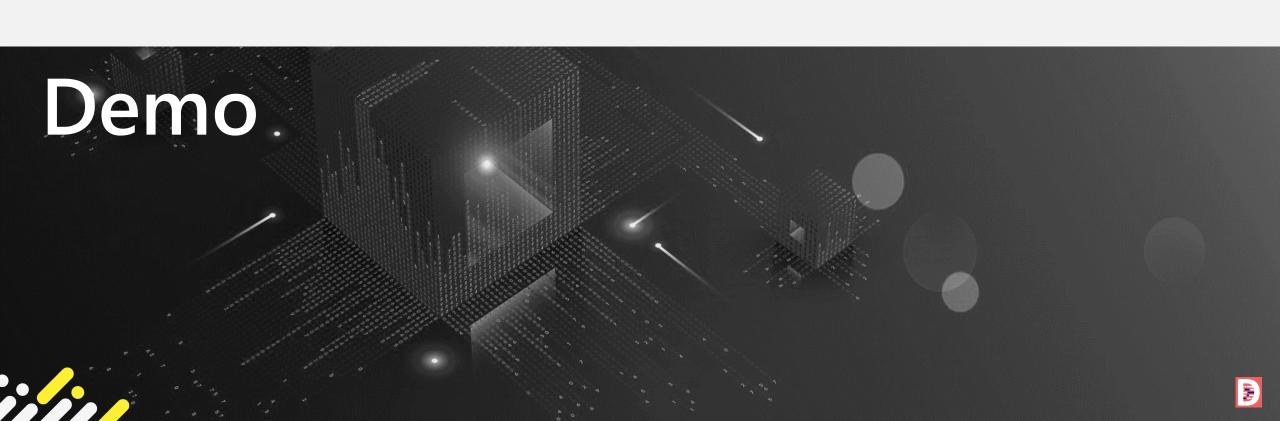
SQL Active Directory ad...: andycutler@datahai.co.uk

Dedicated SQL endpoint : .sql.azuresynapse.net

Serverless SQL endpoint : : -ondemand.sql.azuresynapse.net

Development endpoint : I lemodh.dev.azuresynapse.net





# Thank you