

Azure Synapse Serverless SQL Pools for data warehousing

Start small think big

Hylke Peek

Hylke Peek



Data Consultant



Peek Data Consultancy



@hylkepeek



Linkedin.com/hylkepeek

I'm working on a lot of different stuff. Focus on **Azure** and **Power Platform**.

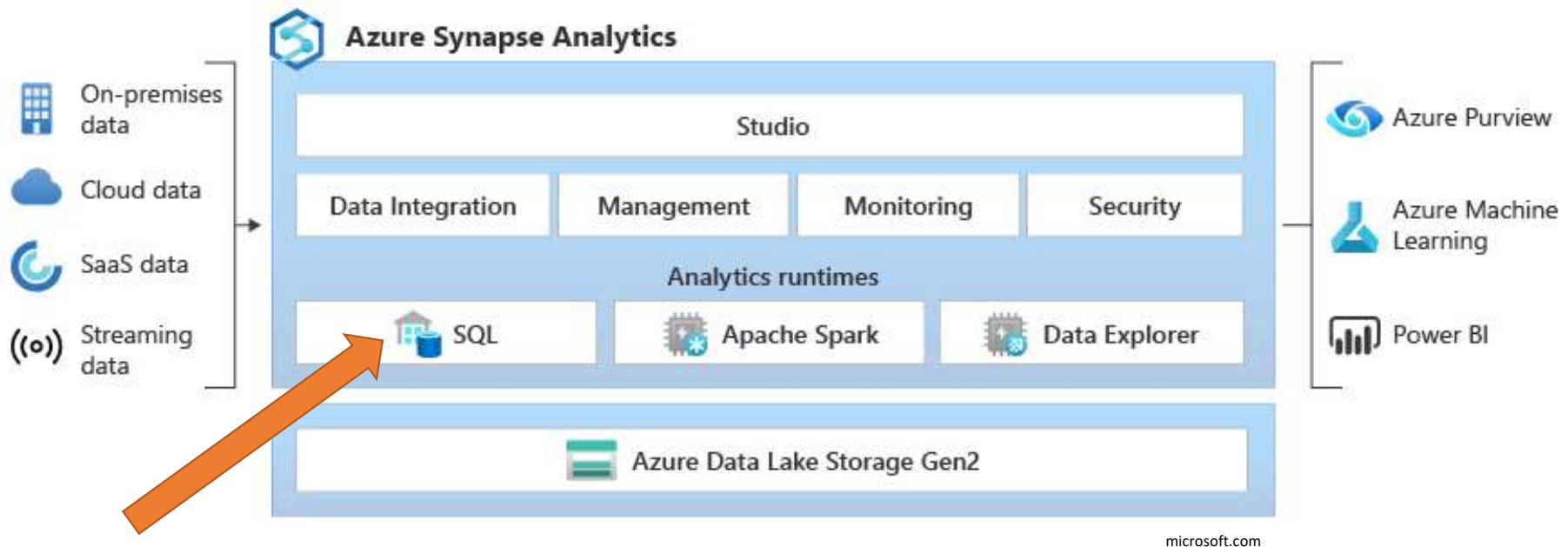
- Data Platform
- Datawarehousing
- Analytics
- Azure data solutions
- Power Platform

Topics

- **Some basic concepts**
- **Synapse Serverless Pools in action**
- **Wrap-up**



Synapse Analytics



Unified experience

Ingest, explore, prepare, manage, and serve

Synapse Analytics - SQL

Azure Synapse SQL

Big data analytics service

Synapse SQL

Dedicated pool

Data store in relational tables

Dedicated infrastructure

Continuous big data processing

Large-scale enterprisewide dwh

Pay for dedicated resources

Serverless pool

Data stays at the source (data lake, cosmos db)

No infrastructure to maintain

Ad-hoc big data processing

Exploration and logical data warehouse

Pay per use

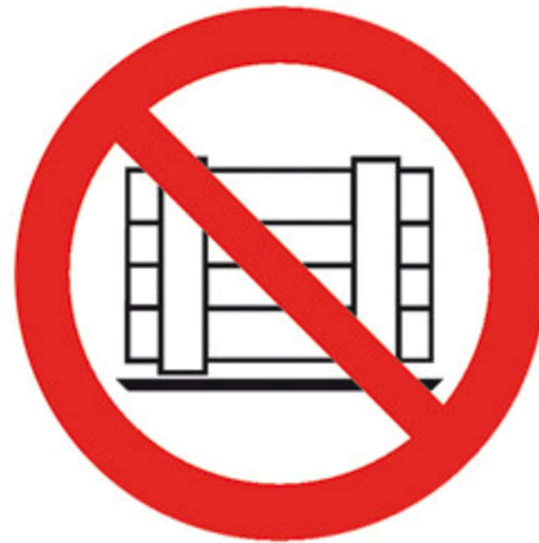
No storage so, no

Tables

Triggers

Materialized views

Update, Insert, Delete



Pricing

Data read from input

Data transformed

Data send to output

Other things you should know...

DDL statements are free

You pay for each MB (rounded up)

Minimum is 10 MB per query

5\$ per TB

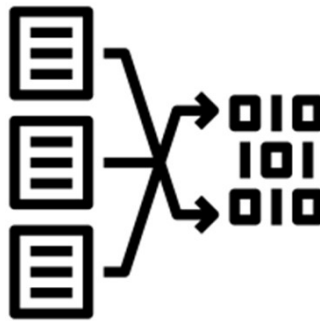
Serverless pool - Use cases



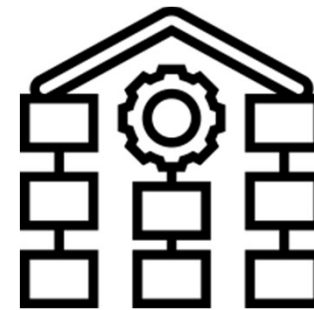
Data discovery



Data Transformation



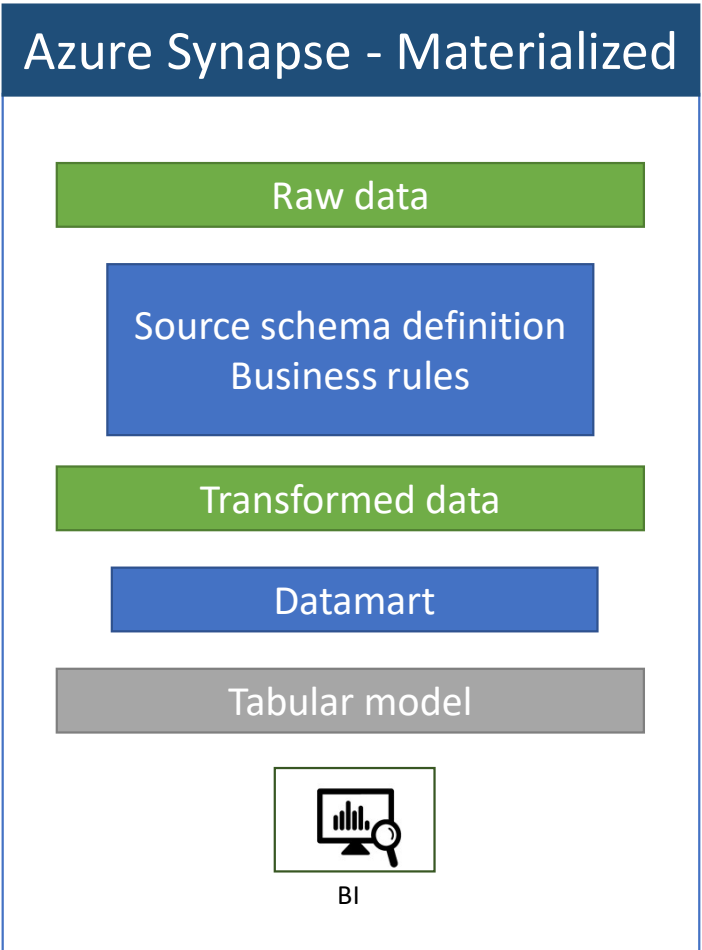
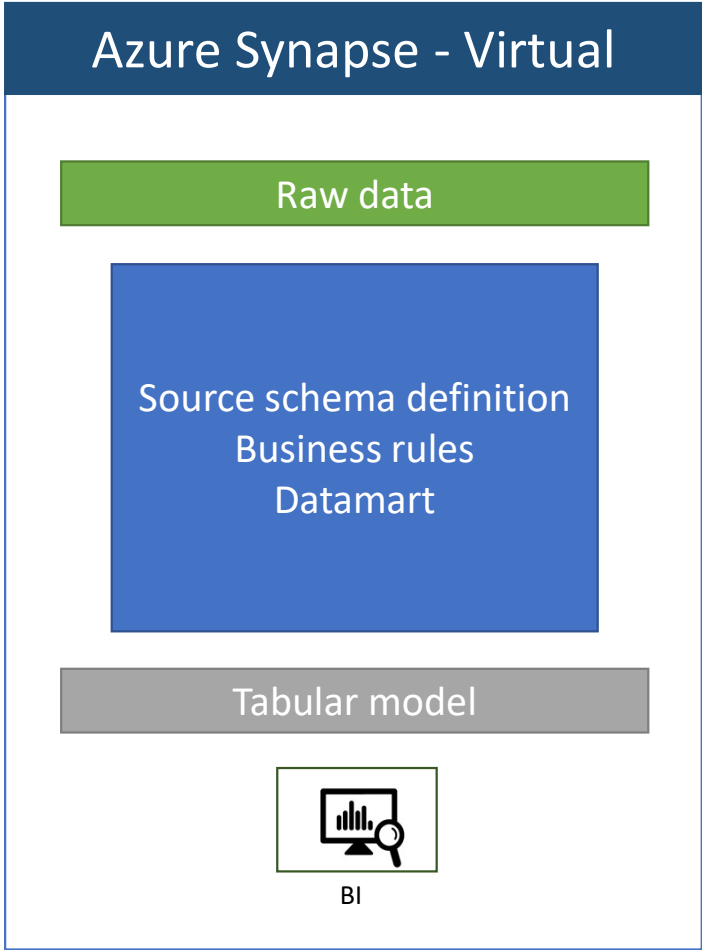
Logical DWH



Conceptual

Stored in ADLS

No data stored



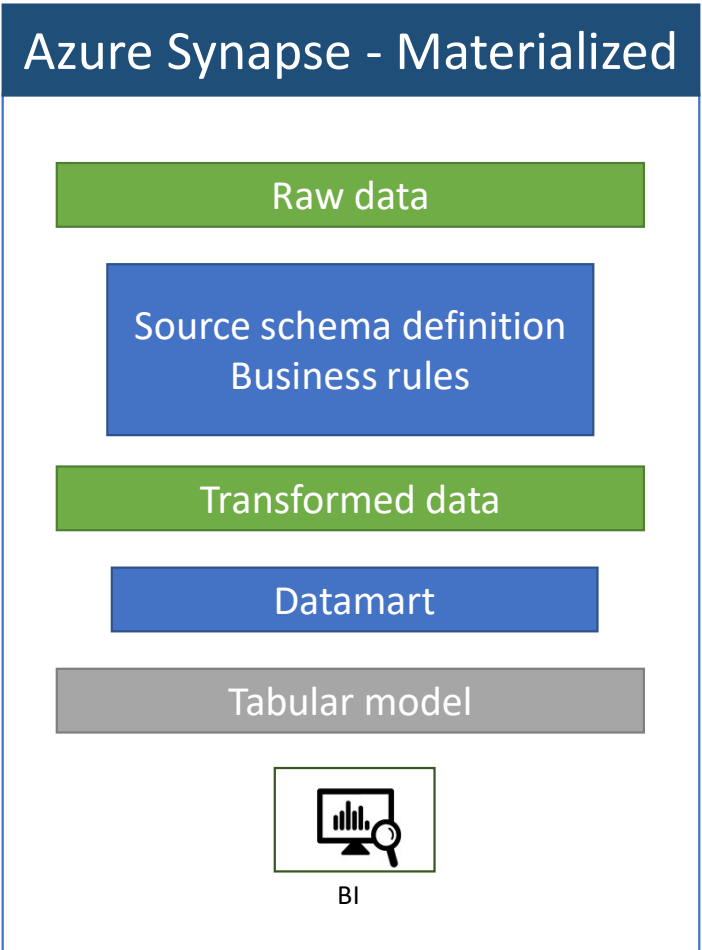
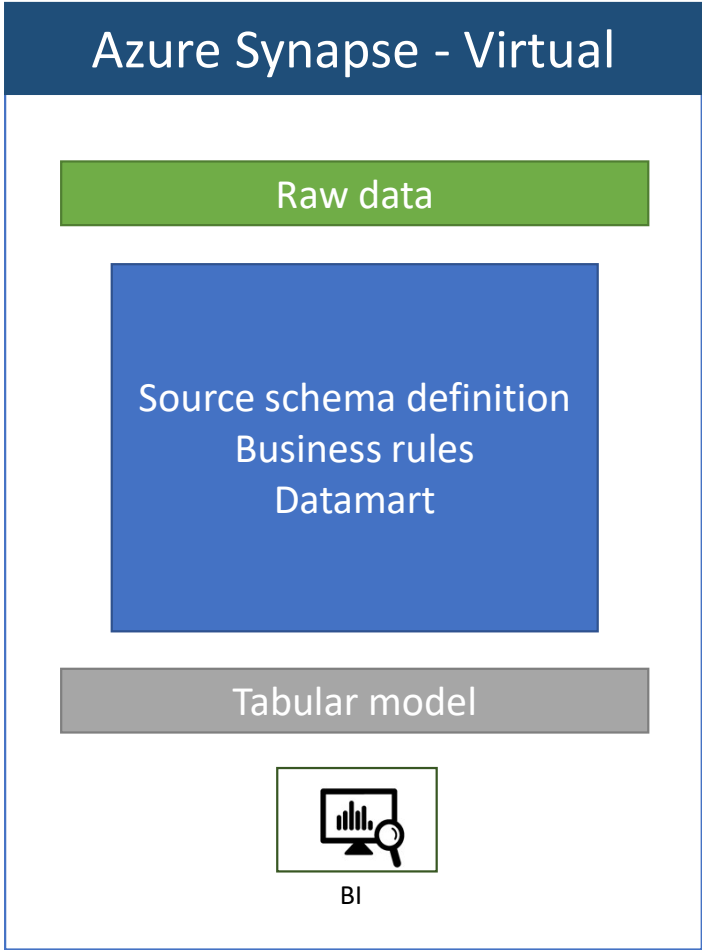
Demo

- Querying data
 - Select data from data lake
- Creating objects
 - Views
 - Stored procedures
 - Functions
- CETAS
 - Create External Table As Select
- Integrate
 - Pipelines
- Power BI
 - Connect from Synapse
- Parquet vs CSV
 - Why we should use parquet

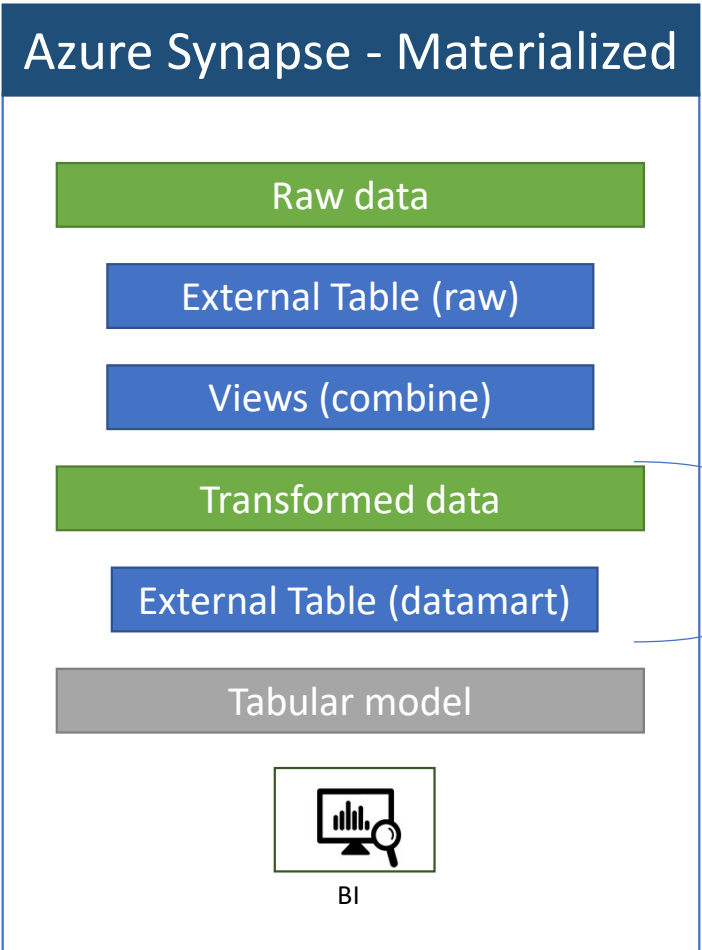
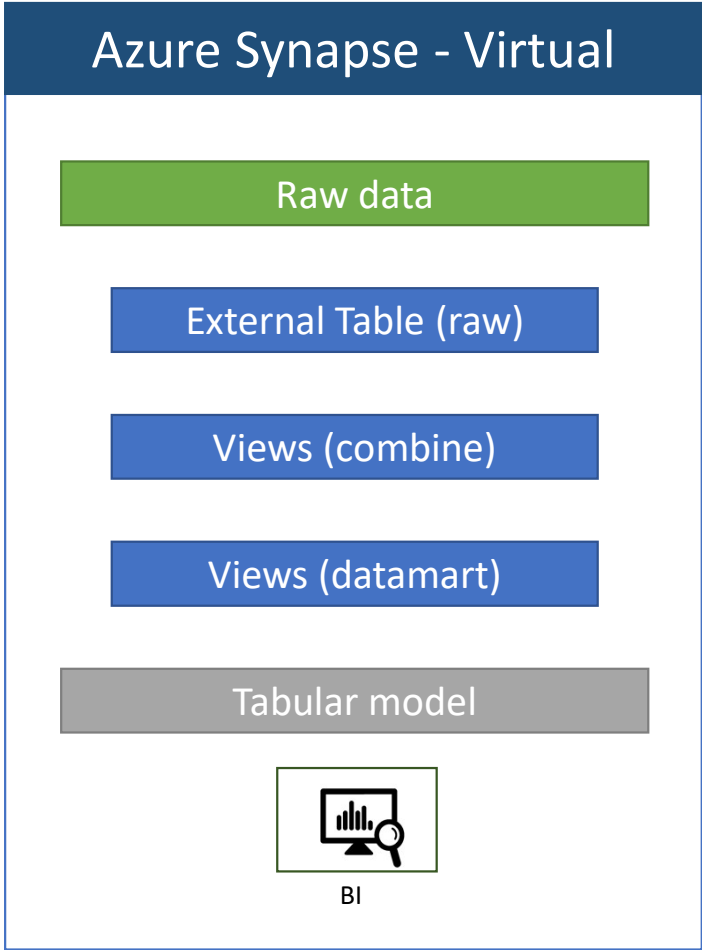
Conceptual

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Conceptual



Stored in ADLS


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Considerations

Big datamart? → Incremental load of your datamart

Don't use this for direct query with low latency reports

Make sure you control your costs



Azure Synapse Serverless SQL Pools for data warehousing

Thank you

Hylke Peek