

kokchun giang

using **snowflake** as
our data warehouse
for data analytics to
gain valuable insights



the need for **scalability**

when workload is increasing

on-premise



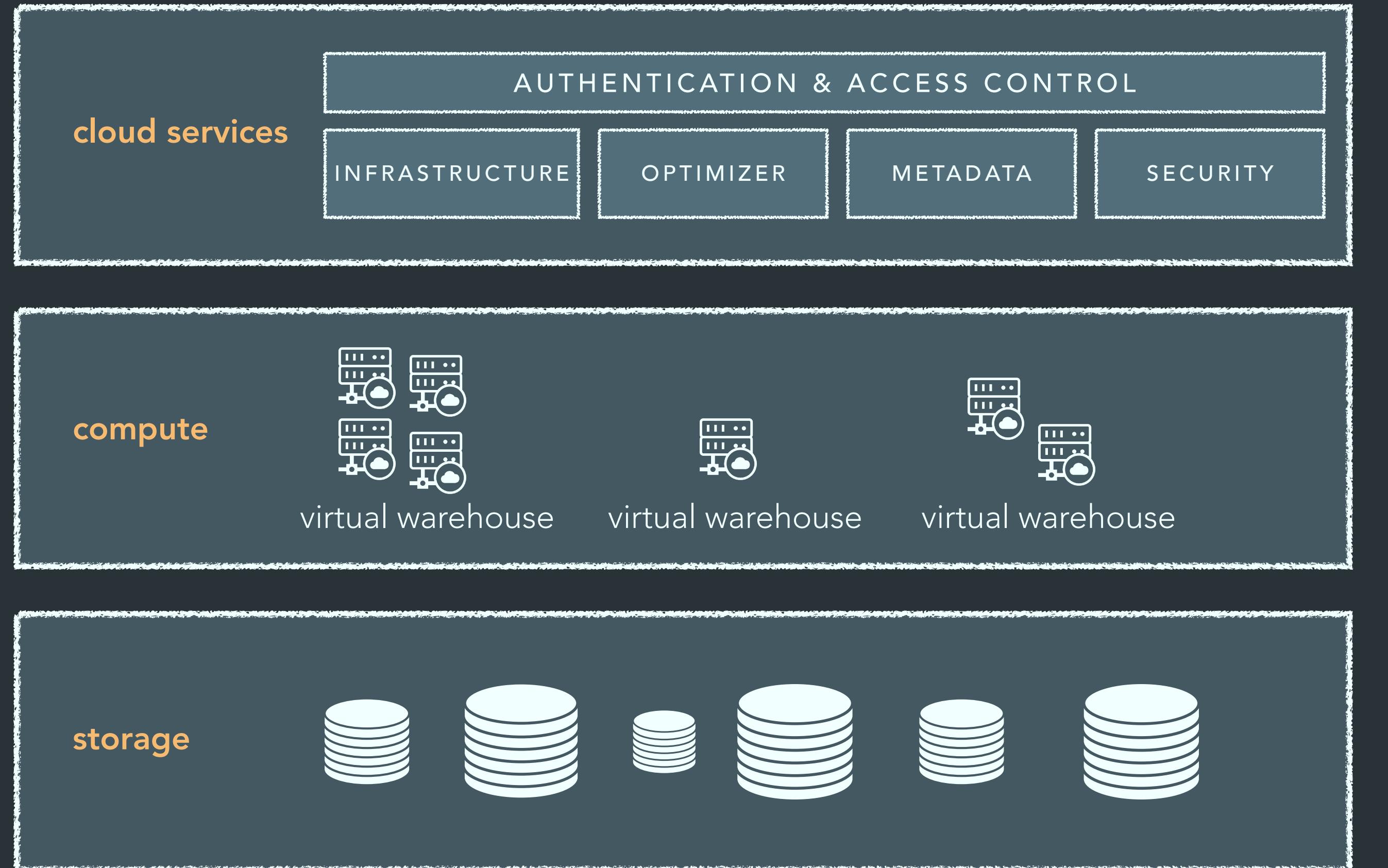
physical servers

need to buy more hardware

not flexible and hard to manage

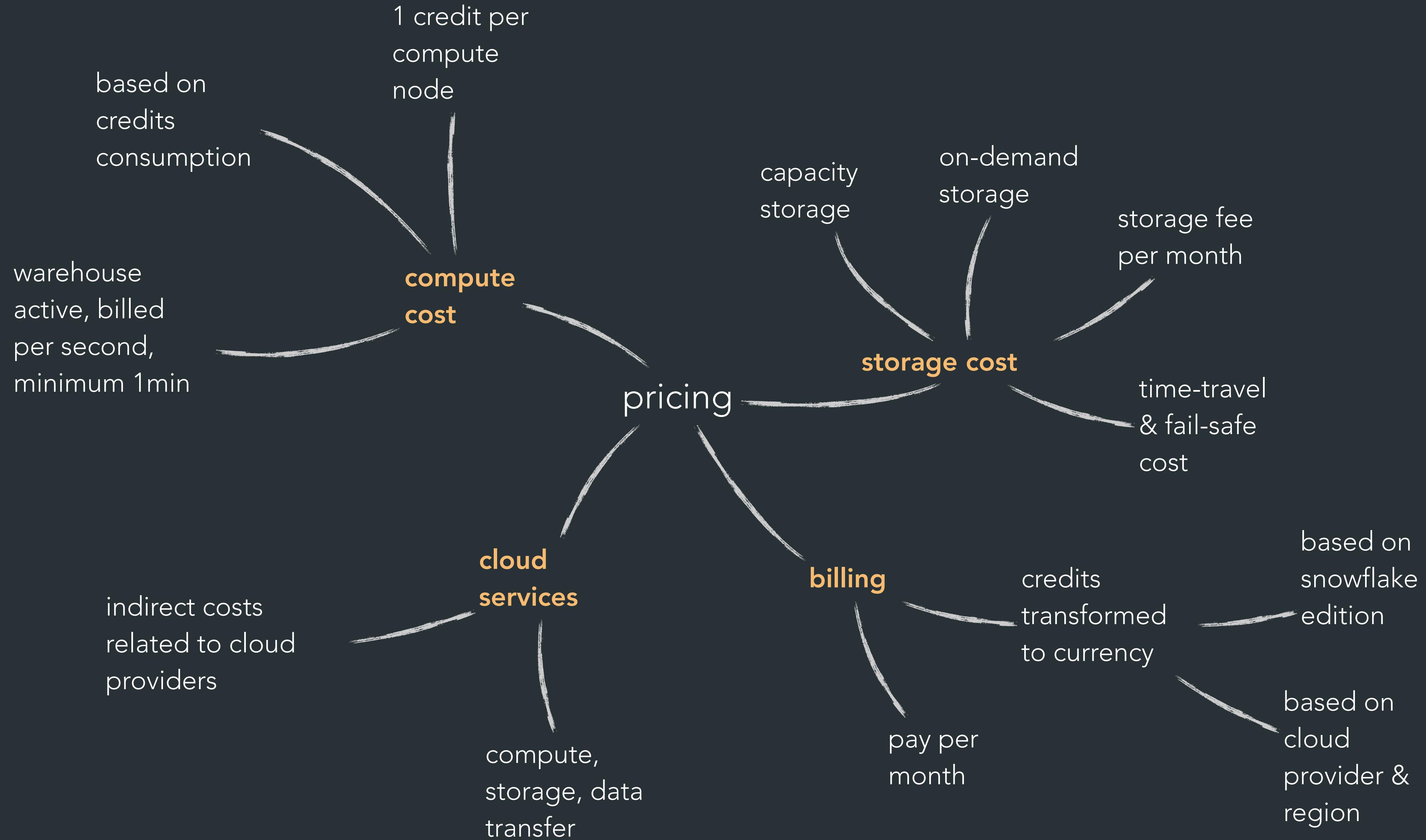
large upfront cost (CapEx)

snowflake **three-tier architecture**



runs on top of
cloud platforms





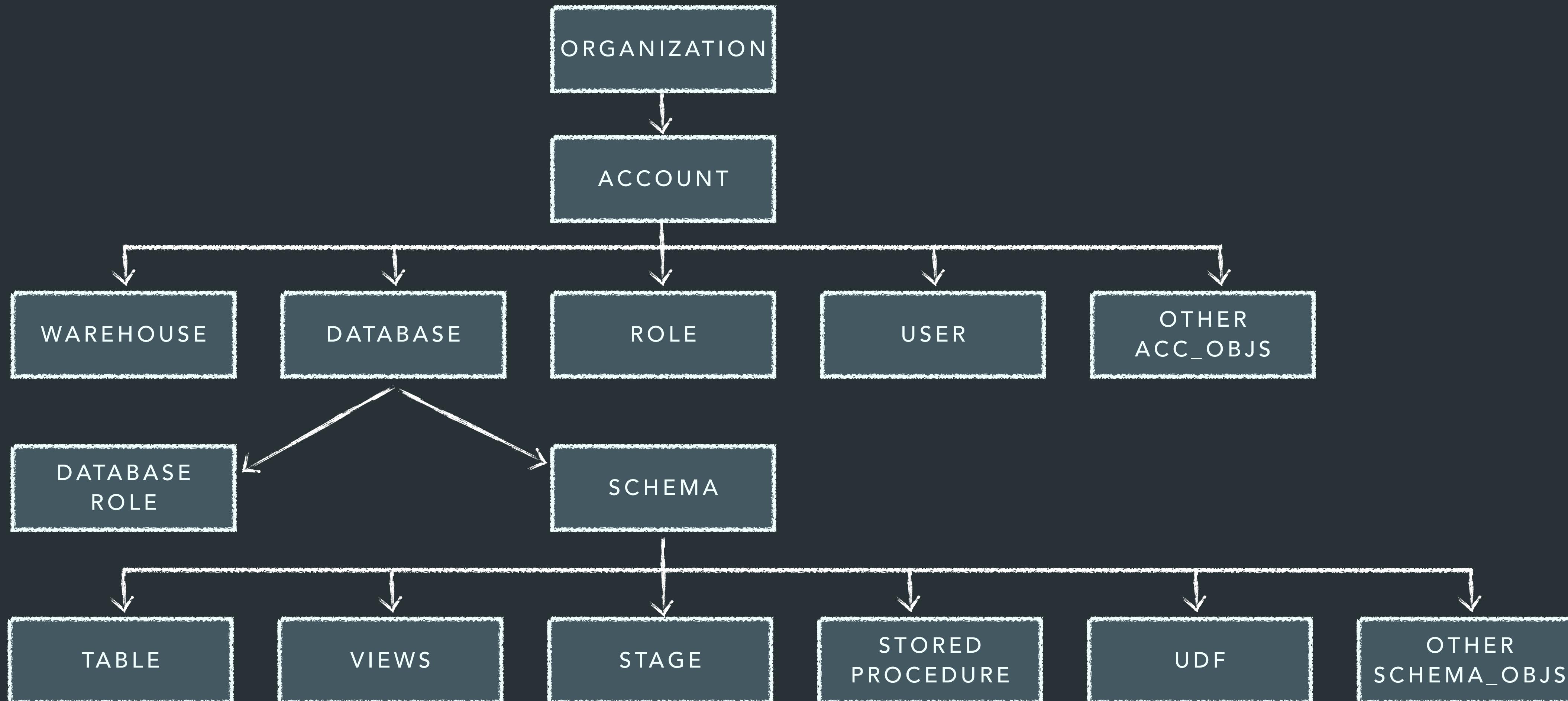
snowsight is a modern user interface for snowflake

The screenshot shows the Snowsight interface for Snowflake. On the left is a sidebar with navigation links: Create, Search, Projects (with Worksheets selected), Notebooks, Streamlit, Dashboards, App Packages, Data, Data Products, AI & ML, Monitoring, Admin, and a trial status message at the bottom. The main area is titled 'Worksheets' and shows a list of recent worksheets. The columns are: TITLE, TYPE, VIEWED, UPDATED, and ROLE. The data includes:

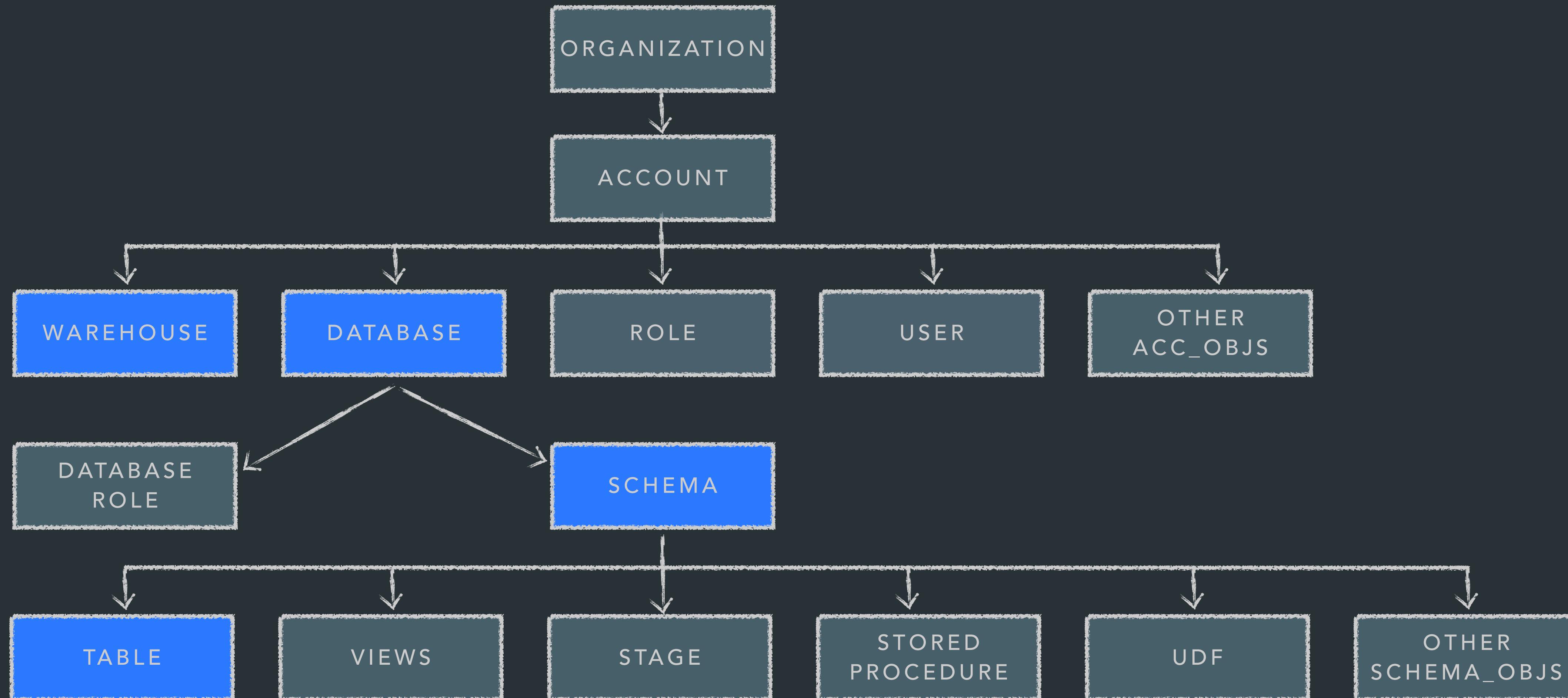
| TITLE | TYPE | VIEWED | UPDATED | ROLE |
|---|--------|-----------|-------------|--------------|
| Sample queries on TPC-DS data Benchmarking Tutorials | SQL | just now | just now | ACCOUNTADMIN |
| 2024-07-16 10:33am | SQL | just now | 3 hours ago | ORGADMIN |
| 2024-07-16 7:53am | SQL | 1 day ago | 1 day ago | USERADMIN |
| DEMO_SQL_WORKSHEET | SQL | 1 day ago | 1 day ago | ACCOUNTADMIN |
| Load sample data with SQL from S3 ... Getting Started Tut... | SQL | — | 3 days ago | ACCOUNTADMIN |
| Load sample data with Python from ... Getting Started Tu... | Python | — | 3 days ago | ACCOUNTADMIN |
| [Template] Adding a user and granti... Getting Started Tut... | SQL | — | 3 days ago | ACCOUNTADMIN |
| Getting Started Tutorials | Folder | — | 3 days ago | — |
| Sample queries on TPC-H data Benchmarking Tutorials | SQL | — | 3 days ago | ACCOUNTADMIN |
| TPC-DS 10TB Complete Query Test Benchmarking Tutorials | SQL | — | 3 days ago | ACCOUNTADMIN |
| TPC-DS 100TB Complete Query Te... Benchmarking Tutori... | SQL | — | 3 days ago | ACCOUNTADMIN |
| Benchmarking Tutorials | Folder | — | 3 days ago | — |

A blue 'Continue' button is visible in a notification bar at the top.

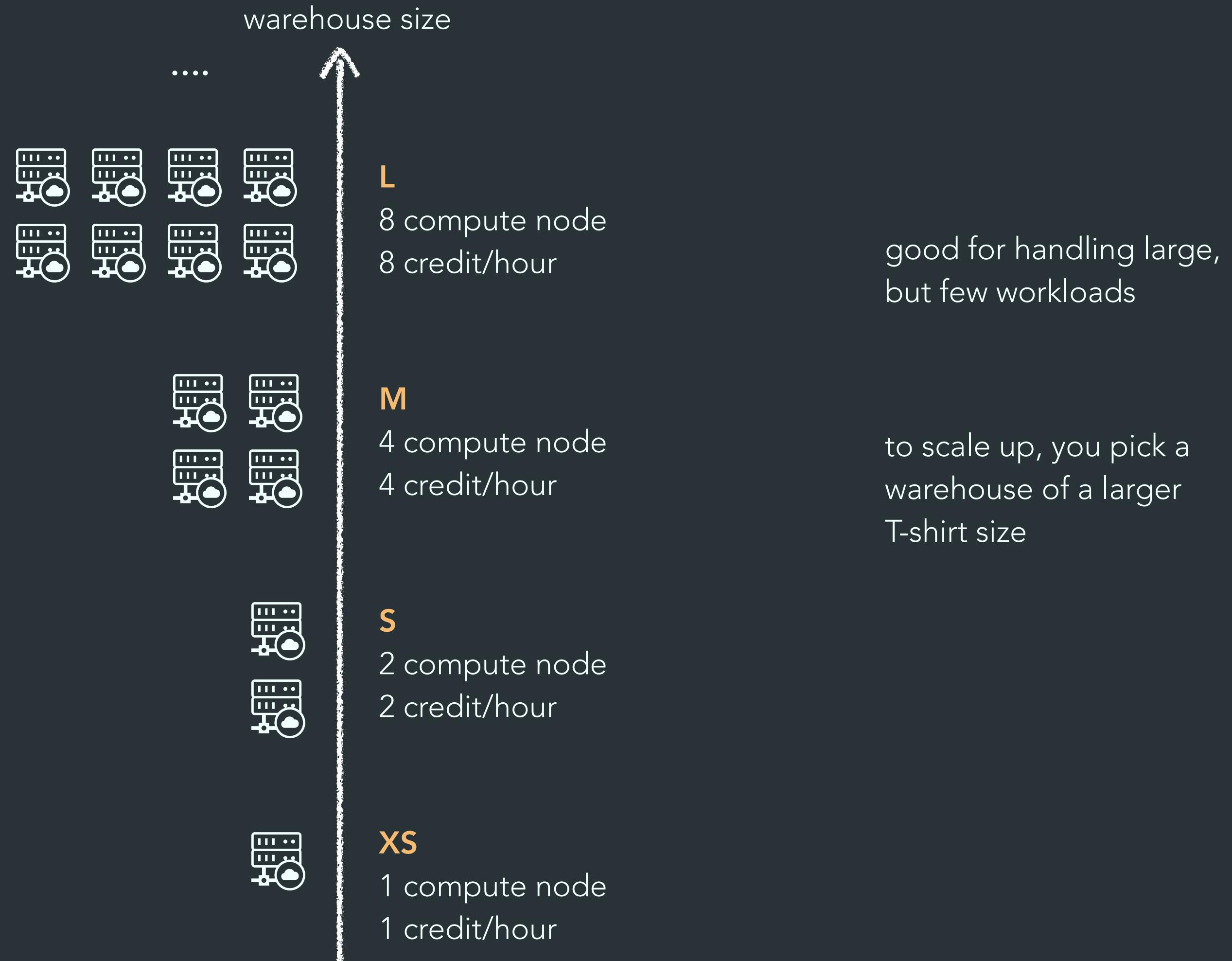
hierarchy of snowflakes **securable objects**



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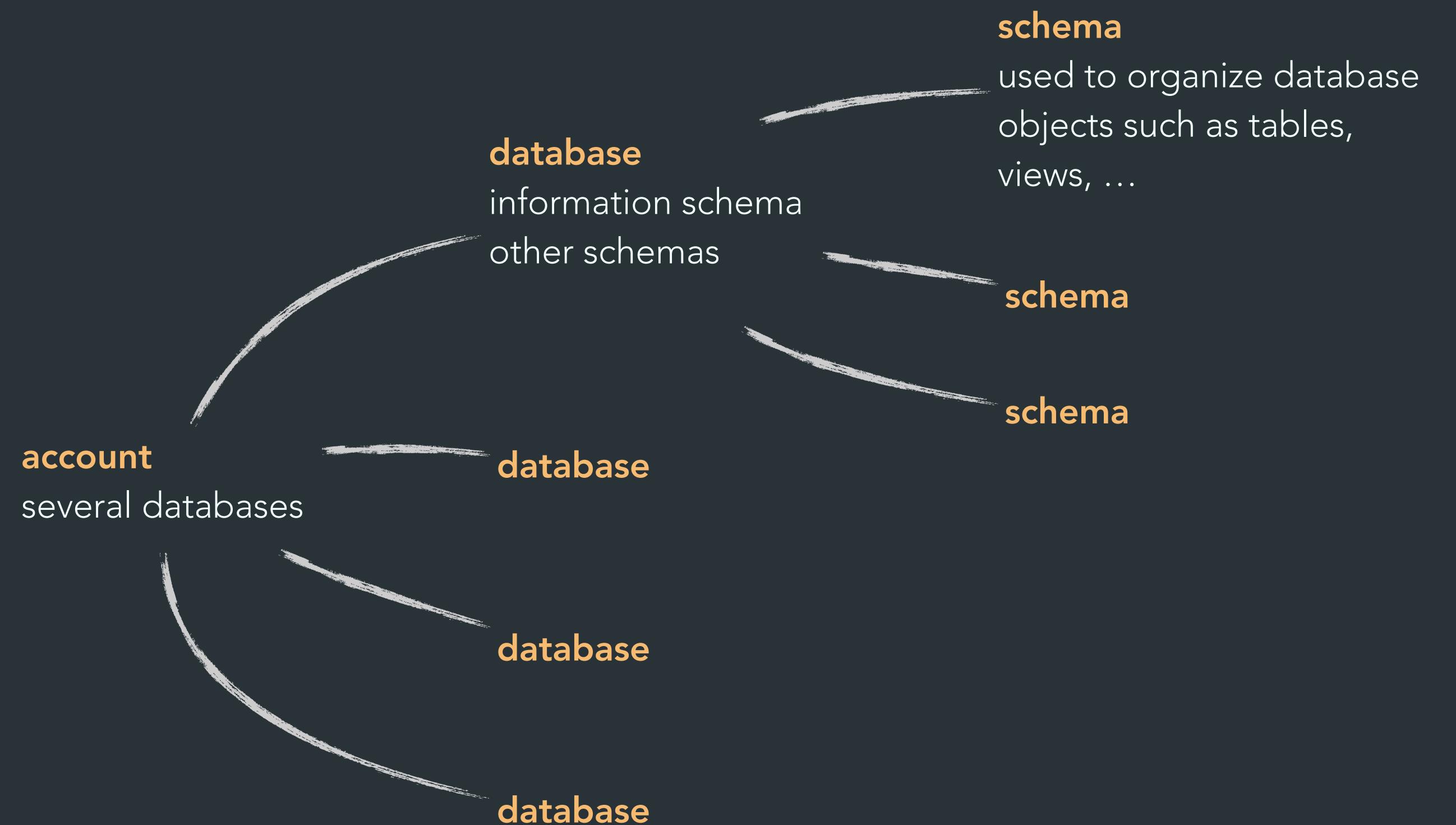
virtual warehouse **scaling up**



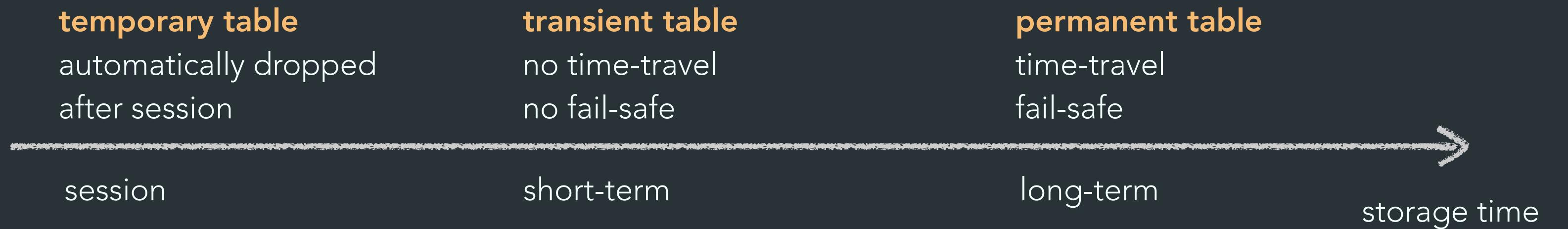
virtual warehouse **scaling out**



database and schemas object



different types of **tables** in snowflake



external table

query data in azure blob
storage, google cloud service
and amazon s3 bucket, without
loading into snowflake