**Snowflake (Your data, No limits) documentation:**

**Architecture and key concepts of cloud data warehouse:**

--First analytics DW and runs most popular cloud

--As a snowflake customer simply signup, run and load query

--Faster, easier to use and more flexible

--Handles all aspects like Authentication, Configuration, Resource management, Data protection, availability and Optimization.

--How differs from others:

--Shared disk architecture and shared nothing architecture

Three layers:

Storage:

Data base logical grouping of data table s and views.

Structured relational data: Varchar, number, Boolean, timestamp etc...

Semi Structured relational data: JSON, AVRO (Variant data type)

AES-256 strong encryption to store using columnar data

Compute:

Independent compute or virtual warehouses

Services: manages entire system

Metadata store: zero copy cloning, time travel and data sharing

Region: Multiple availability zones and high availability.

SnowSQL:🡪authorize access data🡪optimize query plan🡪Query execution instructions to Virtual warehouse🡪

WebUI:

ETL:

Cost: Storage (storage cost and recovery features) on database tables +compute(Number of virtual warehouses created)

BI:

What we need to create in snowflake:

Databases:

Warehouse:

Worksheets:

History:

Partner Connect:

Help:

Username: