

Snowflake

Snowflake is a cloud based warehouse platform used for storing, processing and analyzing large amount of data.

why companies use Snowflake:

- * Handles big data
- * Easy integration
- * Reduces cost
- * No admin work
- * High security
- * Analytics, AI work.

what is Storage:

Storage is the place where your data is stored permanently.

Storage keeps:

- * Tables
- * Files (CSV, JSON)
- * Historical data, Logs, backups.

what is Computing?

Compute means the processing Engine that work on the data.

compute does:

- * Running SQL queries.
- * Transforming data (ETL/ELT)
- * Loading data
- * Aggregating and Analysing
- * Building reports.

Storage → where data is kept

compute → Power to process the data

Types of Data:

* Structured

* Semi structured

* Unstructured

i.] Structured:

Row & columns

Eg: SQL tables, Excel sheet

ii.] Semi-structured:

Key-values format, flexible structure

Eg:
JSON, XML

iii.] Unstructured:

No format, no organization

Eg:
Image, videos, PDFs.