

## 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, Log, backups.

what is Compute?

Compute means the processing Engine that work on the data.

compute does:

\* Running SQL queries.

\* Transforming data (ETL / ELT)

\* Loading data

\* Aggregating and Analyzing

\* Building reports.

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Storage → Where data is kept

Compute → Power to process the data

Types of Data:

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\* 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.