Simple explanation for data learners

Most beginners get this wrong ❌ ➡

- Both store data

- Both sound similar

- Explanations are too technical

But they solve different problems

🌊 Data Lake = Storage room

🏛️ Data Warehouse = Office desk

Both are useful. For different jobs.

DATA LAKE

- Stores raw data

- Any format (CSV, logs, images)

- No fixed structure

Store first. Decide later.

🏛️ DATA WAREHOUSE

- Stores clean data

- Structured tables

- Validated before storing

Clean first. Store later.

USE A DATA LAKE WHEN

- You don't know your questions yet

- You want flexibility

- You work with AI / ML

- You want cheap storage

USE A DATA WAREHOUSE WHEN

- You need dashboards

- You track KPIs

- Business depends on accuracy

- Speed matters

KEY DIFFERENCES

Data Lake	Data Warehouse
Raw data	Clean data
Flexible	Structured
Discover insights	Trust insights

WHAT SHOULD YOU LEARN?

- Beginner analyst → Warehouse

- Data scientist → Lake

- Career growth → Both

🧭 Explore in a Data Lake

🧑‍🔬 Decide in a Data Warehouse

THE REAL SECRET 🤫

Top companies use BOTH

Mahfuzatul
B U S H R A