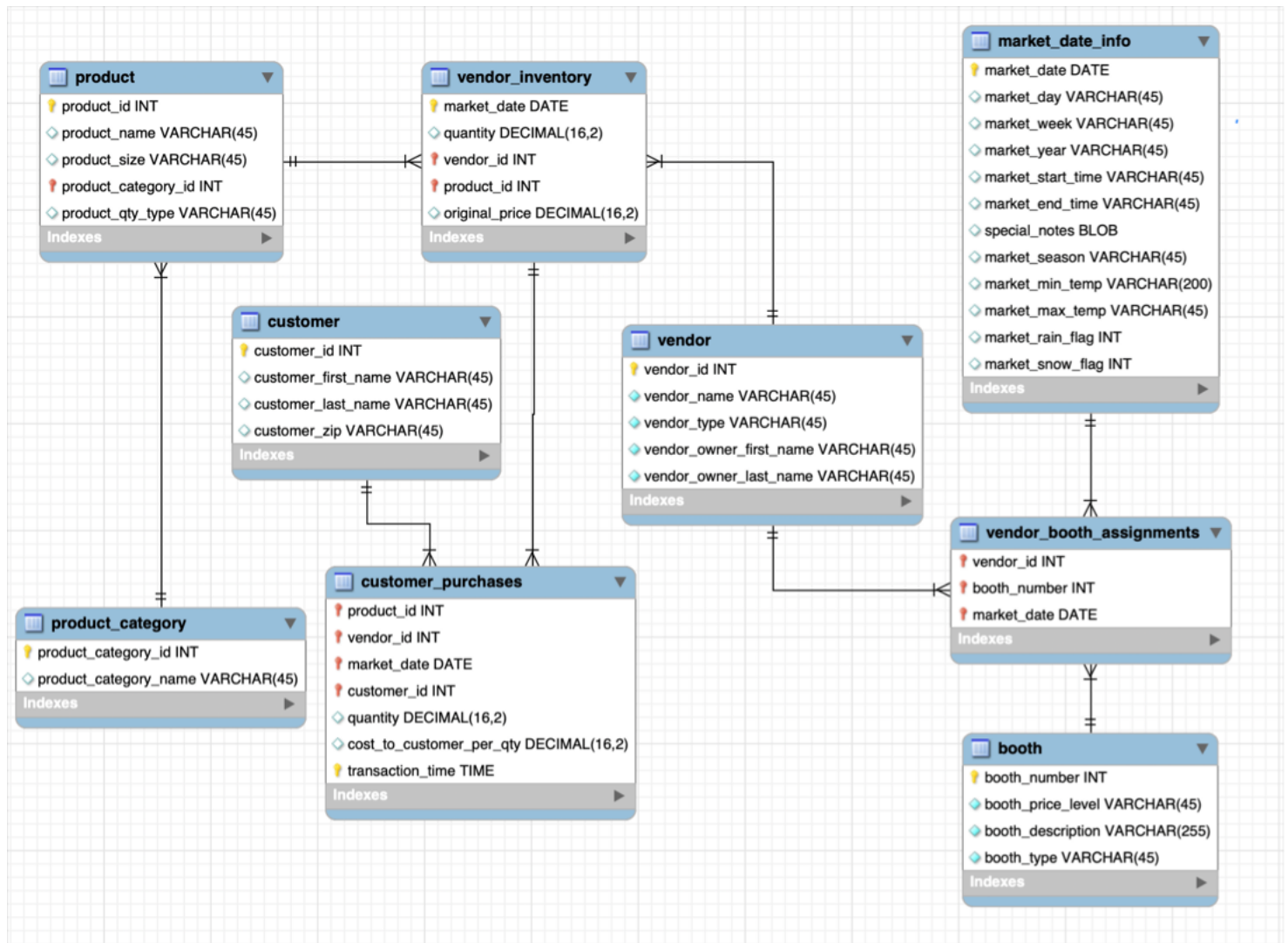


Agenda

- What is database?
- DB schema
- Concept of keys
- Types of relationships
- Data warehouses



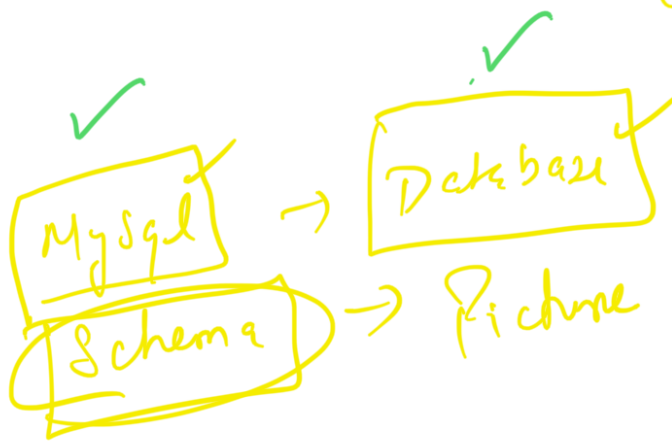
Rule :-

- ① Class will begin at 9:02 PM, No waiting for others.
- ② class will be of 2 hrs with 30 mins Doubt solving.
- * ③ Put your doubts in Question tab, every question will be answered.
- ④ By default, repeating concepts minimum 2 times and some complex concepts 3 times.
- ⑤ Break at sharp 10:00 PM for 5 minutes.
- ⑥ Assignments/Attendance are mandatory.
- ⑦ 18 classes
 - ↳ 18 July = Business Case study
 - ↳ 09 Aug = Module test

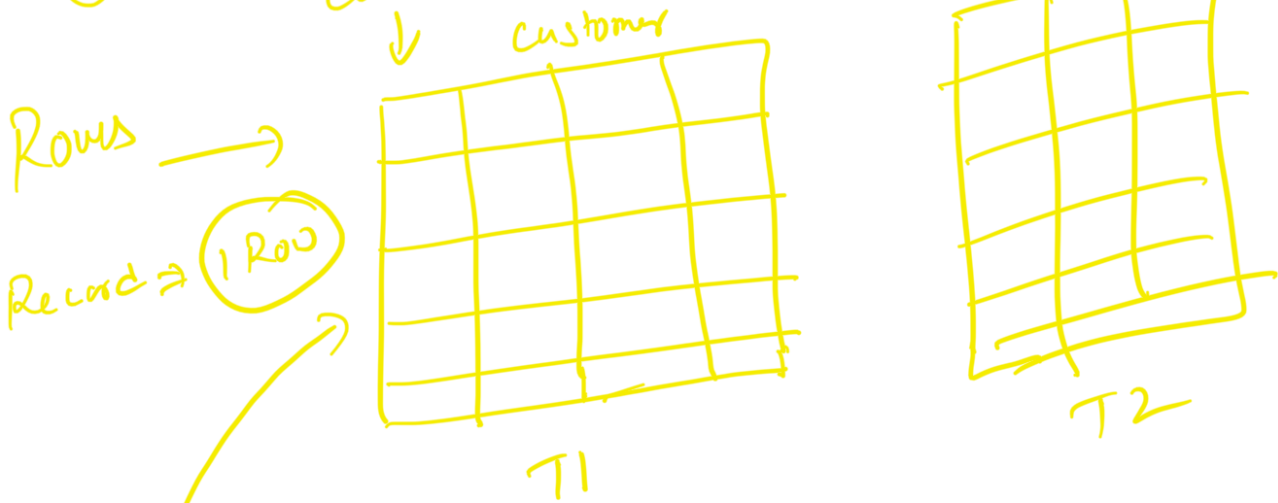
Amazon Fresh

Day 1 → Data Analyst (8-10 LPA)
↳ Analyse the data
↳ extract valuable

Q. example insights.



① Database - Collection of data in tabular format. order



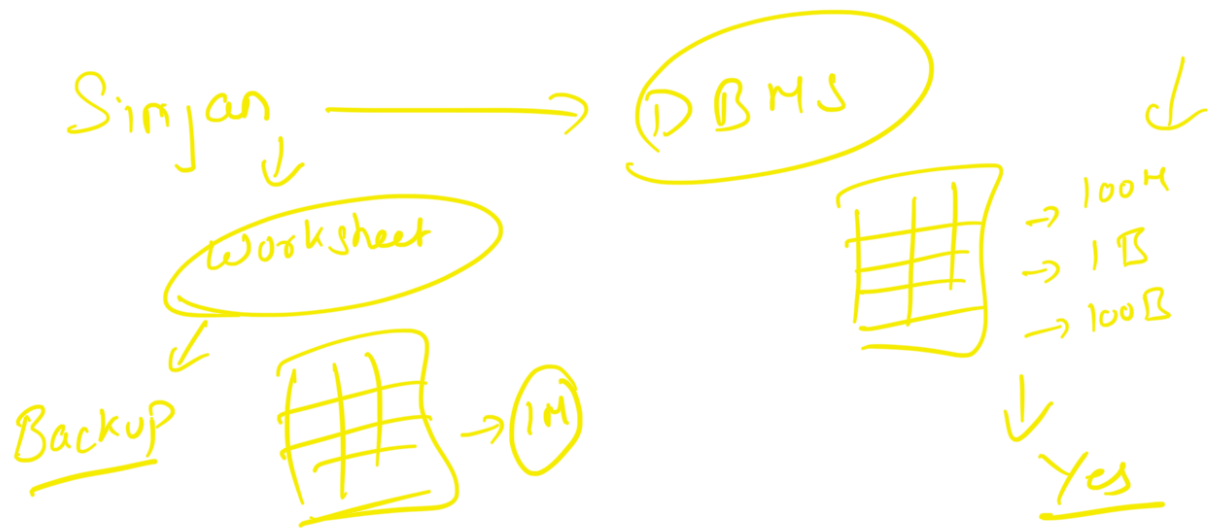
② Management System

- ↳ Create
- ↳ Read
- ↳ Update
- ↳ Insert
- ↳ Delete

✓ DBMS ⇒ RDBMS

→ Collection of inter related tables and a set of program/commands used to access or manipulate

to be in
data.



400+ Databases

1

Sql / RDBMS

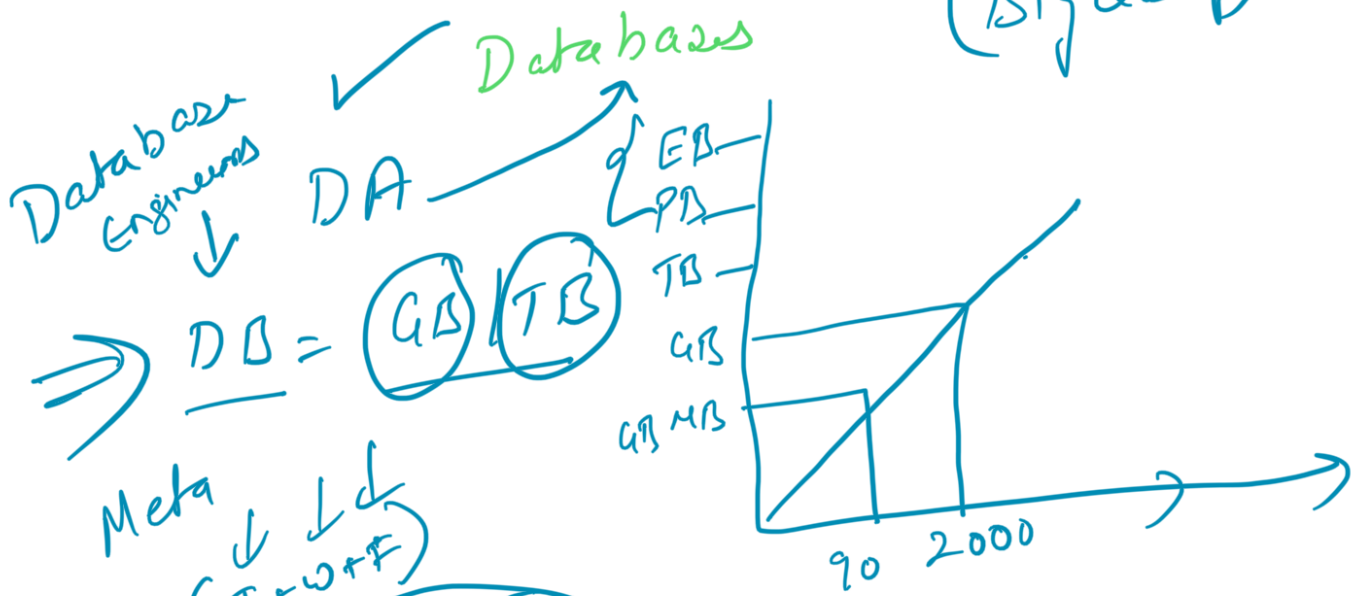
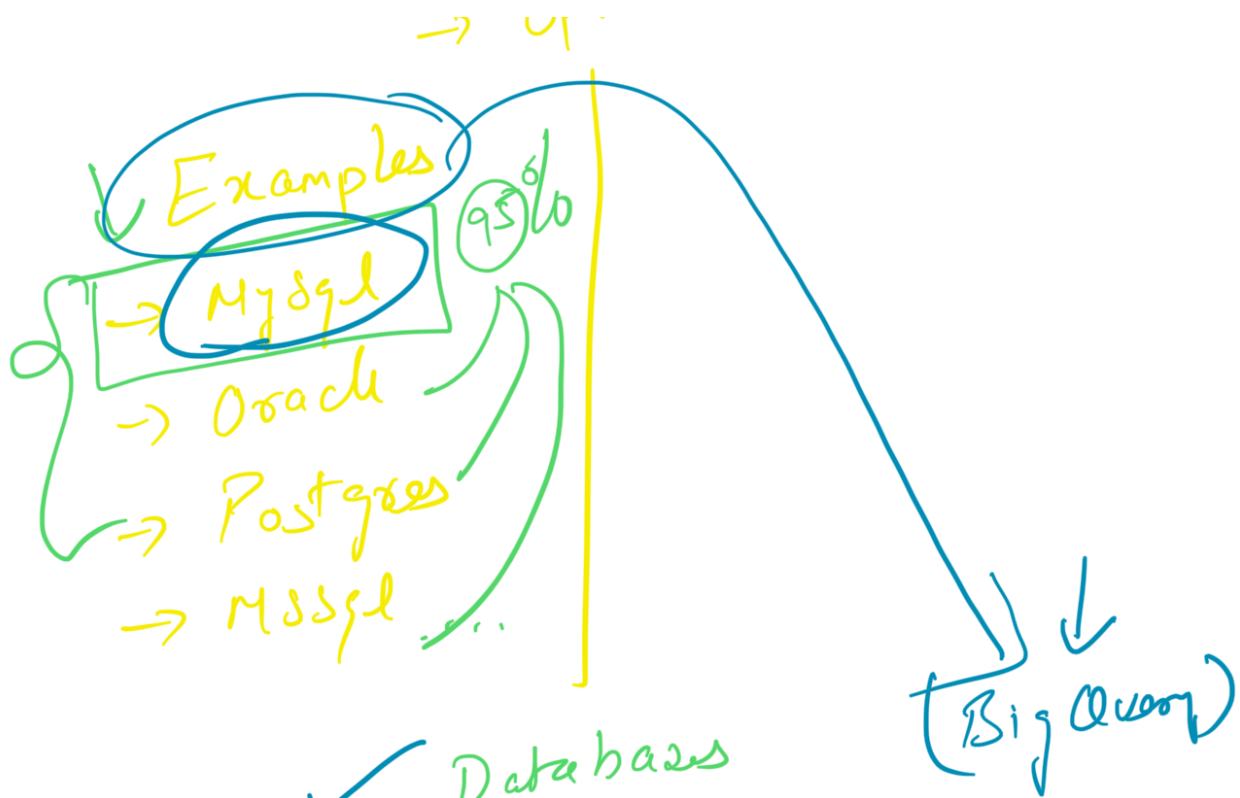
NoSql DB

- ↳ MongoDB
- ↳ Cassandra
- ↳ HBase
- ↳ DynamoDB
- ...

18
Day

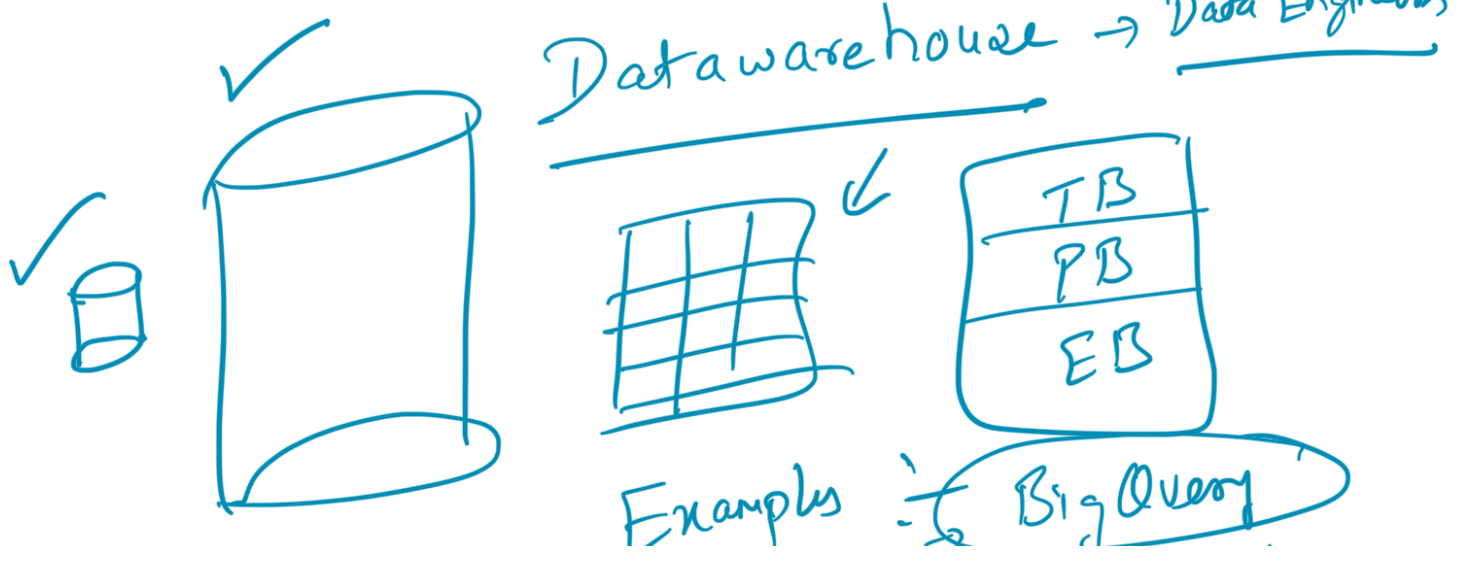
- Basic Sql
- Joins
- Group by
- Aggregations
- window fn
- Time & date
- Stored Procedures
- Functions

no firizations (index & Partition)



180 + PB

MB → GB → TB → PB → EB



- Redshift
- Synapse
- Teradata....

Database	Datwarehouse
<p>① Collection of tables where we can store GD/TB.</p> <p>② DB are used to store <u>day to day</u> trans. Ex: Credit, debit</p>	<p>① Collection of tables where we can store data upto PB/EB.</p> <p>② Dwh are used to store historical data upto <u>10 yrs</u> min, for analysis & reporting</p>

- ① Int = 0, 1, 2, 3, 255
- ② char = 'A', 'B', 'C', 'D', 'z'
- ↳ fixed value = char = 2 ←

→ Customer - Gender char(2)

① ML ✓

② FEM X

1 2 3

1 u. above

③ OTHERS
X

④ none of the above
X

⇒ Customer_name char (10)

① Amit Singh
1 2 3 4 5 6 7 8 9 10

② Adarsh Gupta

③ Shikhar Dhawan
X

④ Sameer Garad
X

③ Varchar (n) = name < = 20
(20)

Ans = Customer_full_name Varchar (15)

✓ (a) Arun Singh ✓ (b) Akash Torpalkar
X

✓ (c) Abdul Shah (d) Suham Rajopadhye
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

Full-name Varchar (45) ←
→ arun Singh (10)

35 bytes
X
↓
2
()

