SQL ✓ + Tableau/ PowerBI ✓

EXL ✓
Fractal
ZS
12LPA

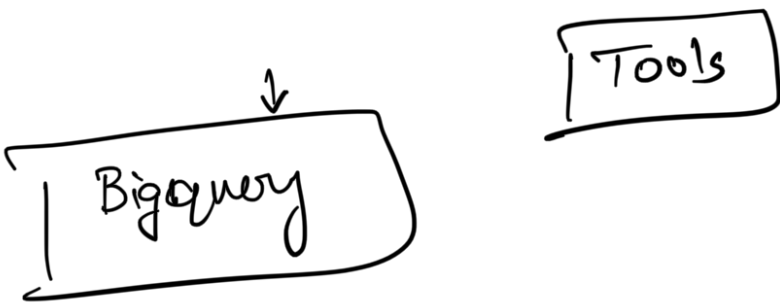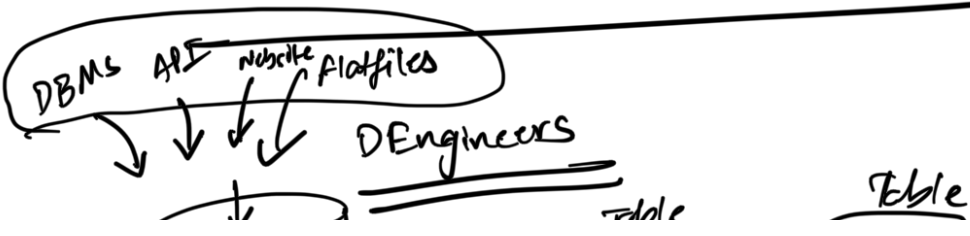$d \to$ SQL   1R

+

Python Program ✓

+

ML

Database $\to$ Collection of interrelated tables

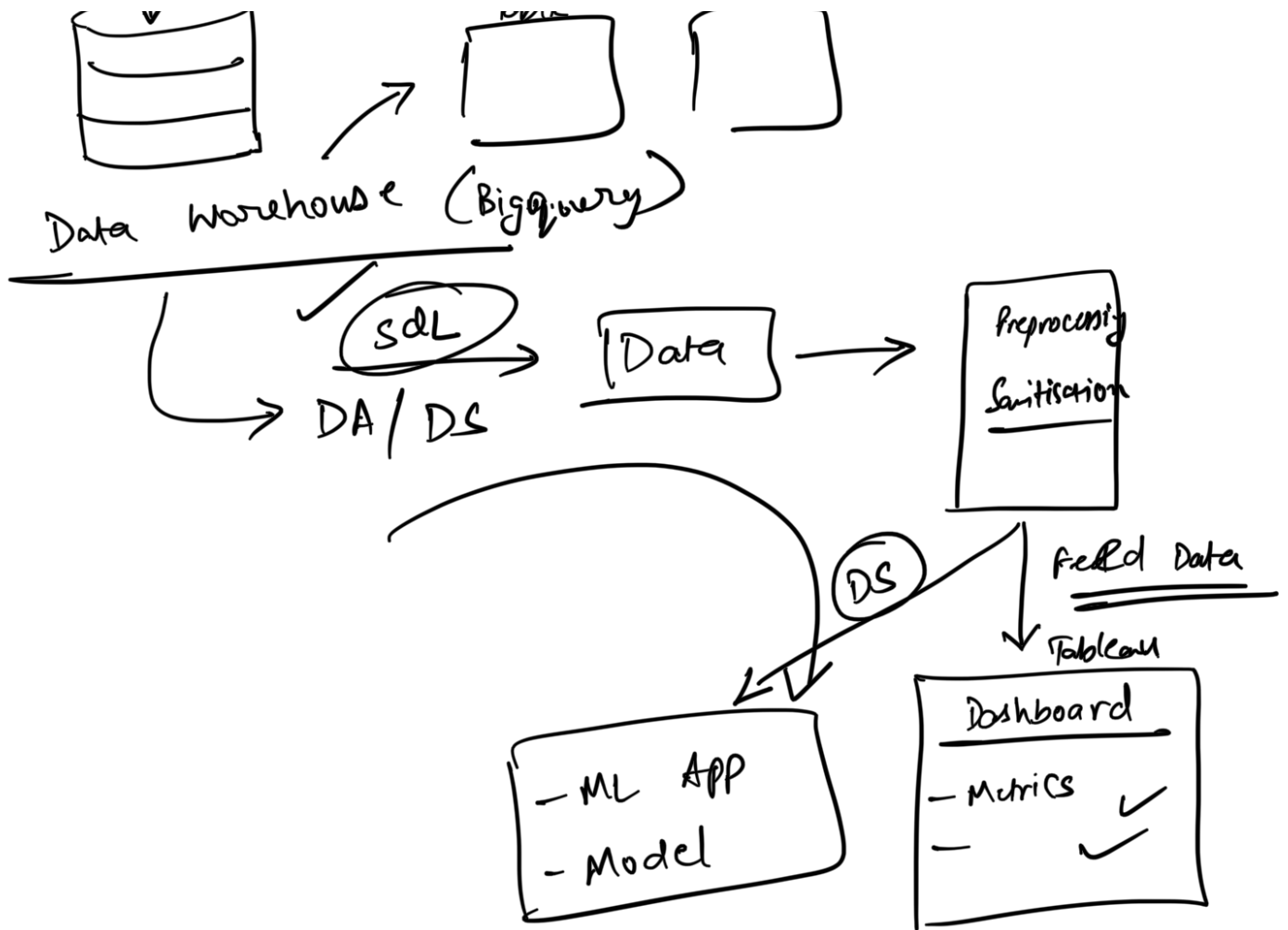Set of operations to manipulate/
manage the database

DBMS

Tools

→ Create ✓
→ Read
→ Update

Bigquery

Cloud Service Provider (AWS, GCP, Azure)

DBMS API Website Flatfiles

DEngineers

Table   Table

Data Warehouse (Bigquery)

SQL → DA/DS → Data → Preprocessing Sanitisation

DS → ML APP / Model

field Data → Tableau Dashboard
- Metrics ✓
- ✓

Reliance Fresh Farmer's Market

Vendors / farmers → Product → Category

Vendors / farmers → Booth → Vendor Booth Assignment

Customer

Customer Purchases / Order

Product | Product Category

May — 1 ← 1

1 ——— 1

| Many ——— 1

Student | Teacher

1 ——— Many

May ——— 1
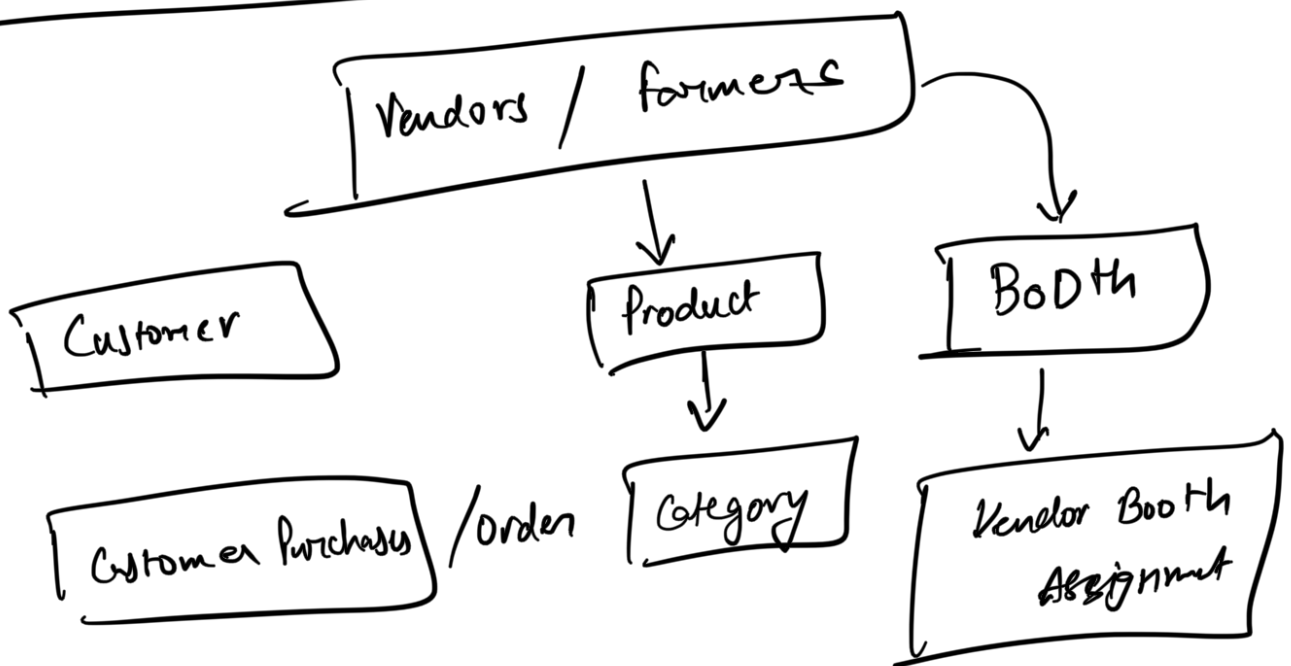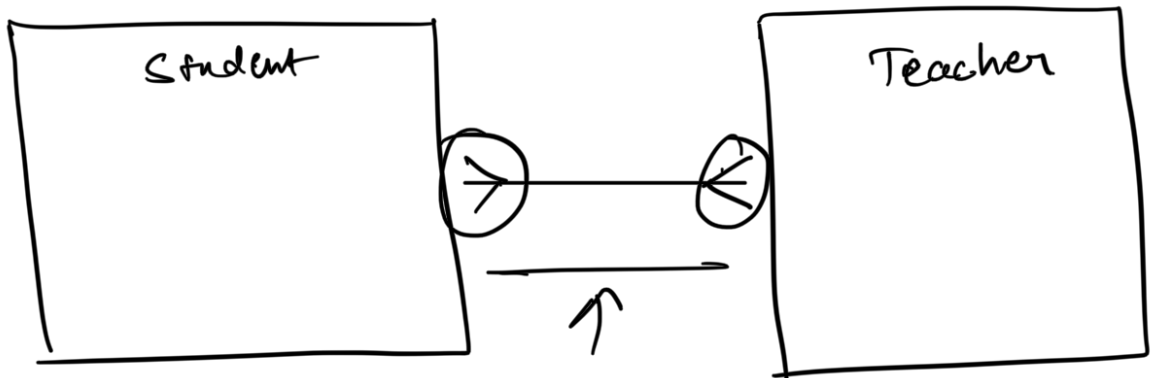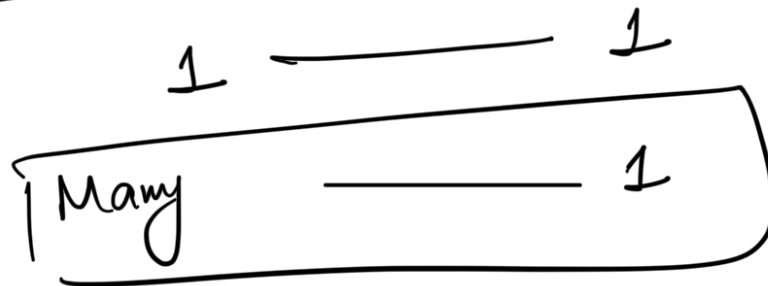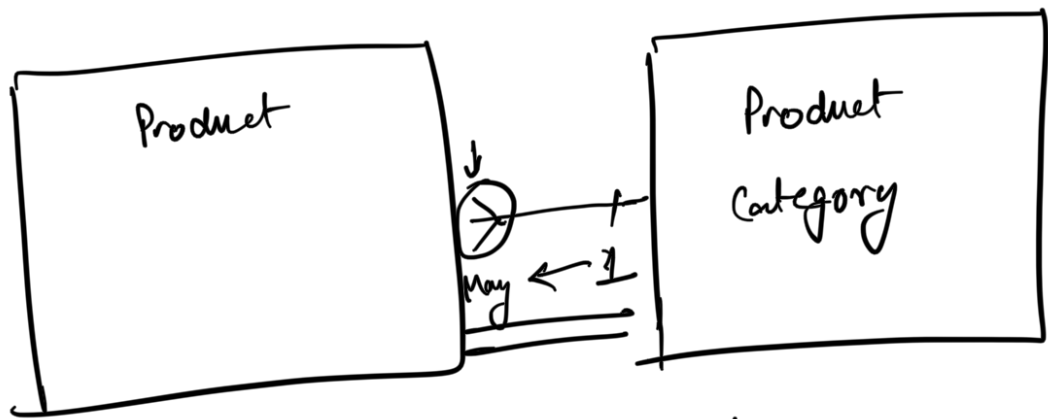
Name	S-ID		T-ID	T-Name
	001		T-001	

Duplicacy

Many — To — May ——— Junction Table

String → Char / Varchar, Bool
Numeric → Int / Float
Time → Time, Date, Timestamp

username (Varchar(8))
' harshit 11 '

Gender
M
F
O

→ Char (1)
→ Varchar (10)

_____ ' ← 7
_____ ' ← 11
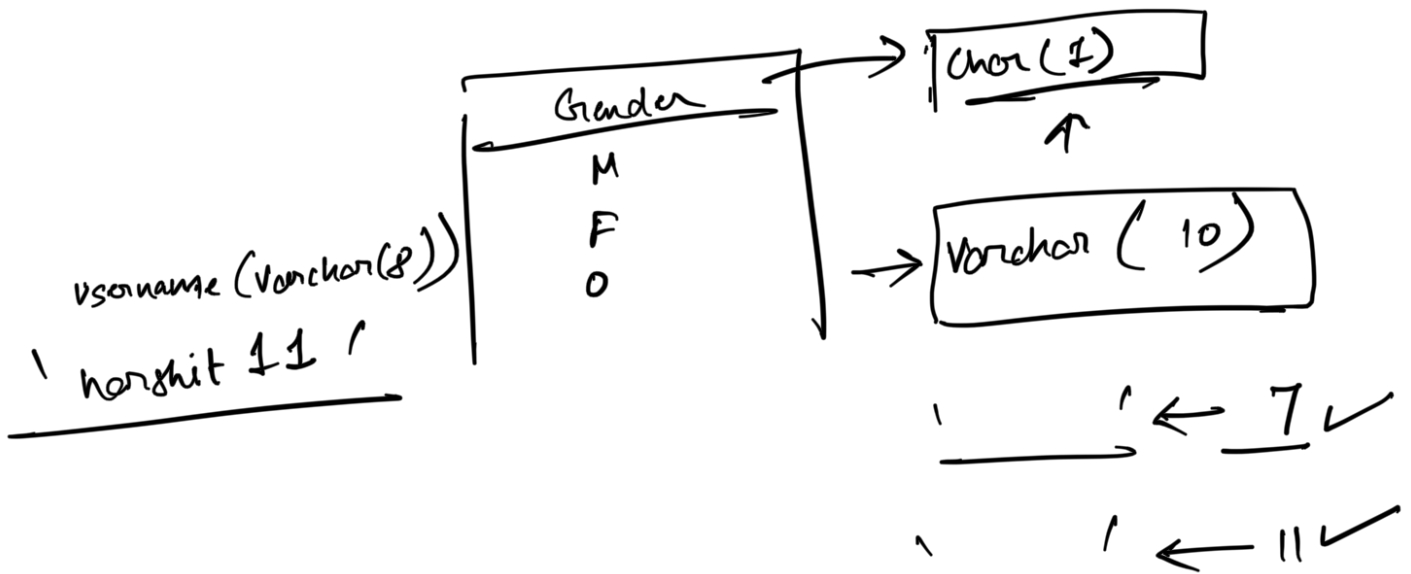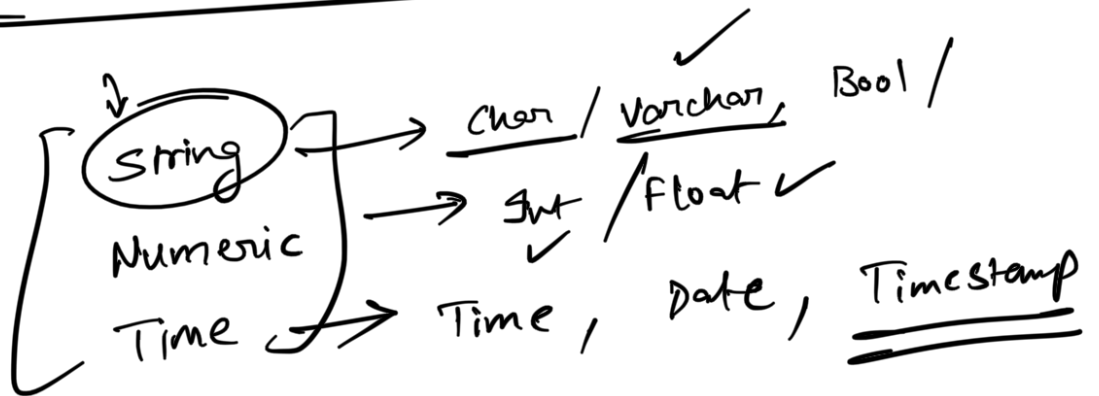
SQL (Structured Query Language)

DDL   DML   DCL   TCL   DQL

```
├─ Create              ├─ INSERT        ├─ GRANT        ├─ ....          ├─ SELECT
├─ Drop                ├─ UPDATE        ├─ REVOKE       ├─ Rollback
├─ TRUNCATE            ├─ DELETE
```

DQL (SELECT)

SELECT ⟶ Retrieves the data to the specified cols from the table.

Syntax :

```
           (*) ✓                    ┌────┬────┬────┬──────┐
SELECT      ①  )                    │ 1  │ 2  │ 3  │      │
            ②  )                    │    │    │    │      │
            3  )  ↓                  │    │    │    │      │
               )                    └────┴────┴────┴──────┘

FROM    [ table_name ]

WHERE   [  conditional  ]

┌ ORDER  BY ┐      date      ,   salary   ,  - - - →

LIMIT   Ⓧ  ←  OFFSET  Ⓨ
```

Sorting
└→ ASCENDING }
   DESCENDING }

LIMIT ②   OFFSET ①

id	Name	Salary
①	-	
✓2	=	
✓3		
4		
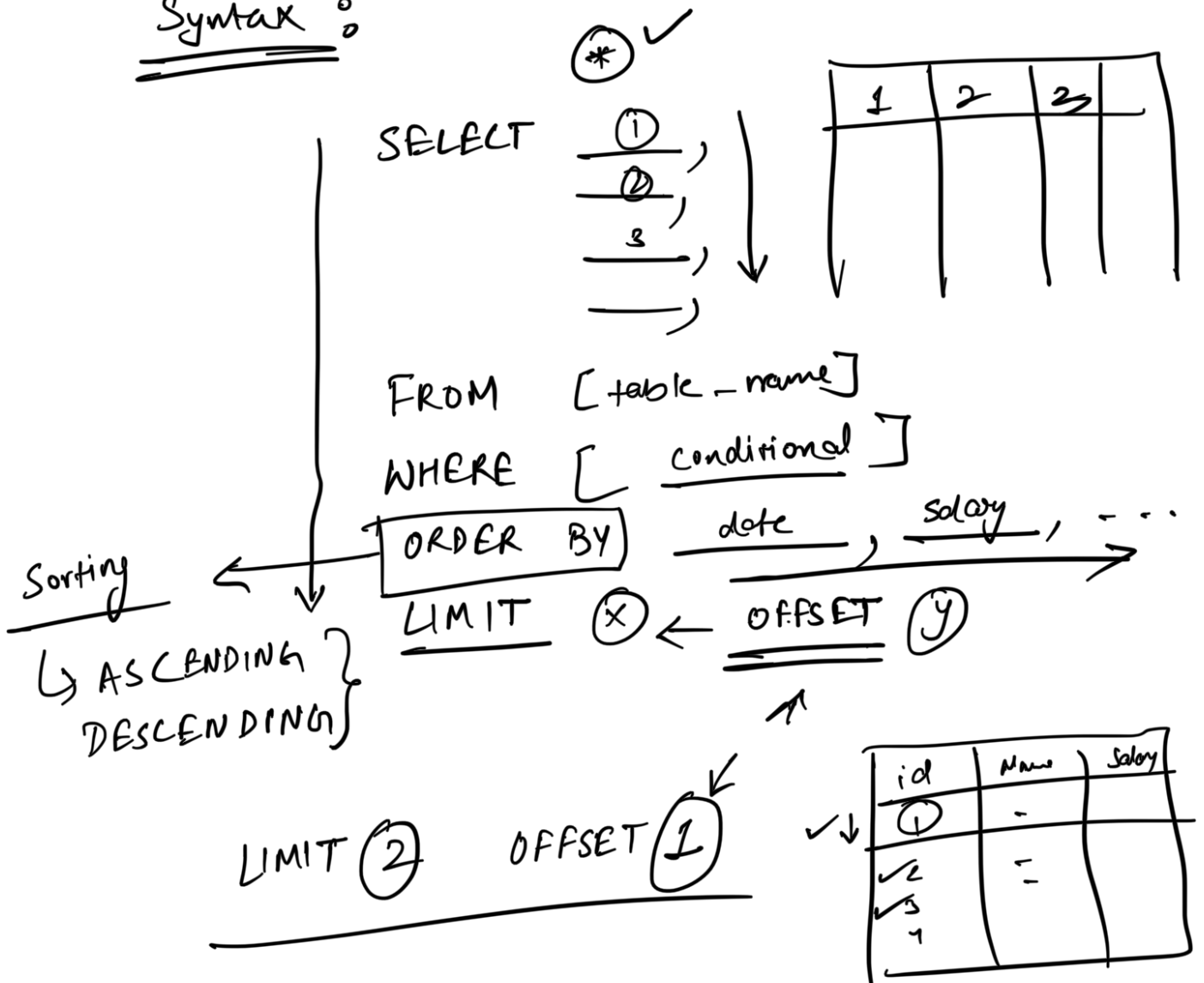
Q Extract all the (products) and _all their_ columns .

SELECT (*)
FROM product;

Multiplication

(Quantity * cost_to ———→)

+

—

/

Alias

customer_id	morket_date	qty	cost_	total_amt

AS

ROUND ()

ROUND (———, 2)

15.88 ⟶

(DB) ← OLTP

(PW) ← OLAP ⟶ Analytical purposes

{
String fns
Filtering & Subquery
JOINs
GROUP BY Agg.
Window fns.
CTE & advanced concept
PS — Interview prep ⟶ (2~3)
}