

INTRO To SQL

DBMS



DB Schema



Blueprint of the DB



RDBMS



MySQL

PostgreSQL

SQLite

Data Warehouse

→ Created for DS & DAs

↳ Bigquery ✓

(SQL)

SQL → Structured Query Language

SQL

DDL

(Data
Definition
Lang.)

+ Create

DML

(Manipulation)

+ Insert
+ Update

TCL

(Txn
Control
Lang.)

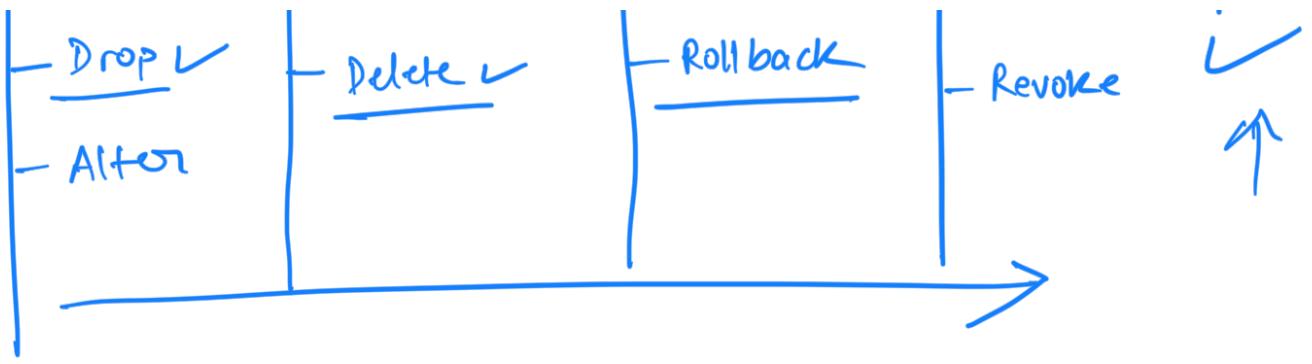
+ Commit ✓

DCL
(control)

+ Grant

DQL
(Query)

+ SELECT



Q: → Get all the products available in the market. ↑

↳ Retrieve data → DQL → SELECT ✓

~~SELECT~~ ✓ → SQL code that retrieves data from a table inside a db.

Syntax:

SELECT <col1>, <col2>, <col3>
FROM <table-name>



Q :
~~Q~~

product_id	product_name	product_size
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→ Display only 10 records from the product table

SELECT
 ↓
 FROM _____
 → LIMIT (x) → Display \times no of rows.

→ Skip the first 2 records & display the 10 rows afterwards.

OFFSET 2 (skips 2 rows)
 ↑

How to Sort data in SQL ?
 ↴ ORDER BY

Syntax : | SELECT ,

FROM <tbl-name>

ORDER BY <col1>, <col2>, <col3>

LIMIT _____

Product table

Q: Explore VBA, list down 10 rows

display  VBA

market-date	vendor-id	booth-number

Resuming at

10:30



Q: Calculate the total amount spent by each customer in each purchase.

$\text{dty} \rightarrow 4 \text{ apples} \rightarrow 4 \times 5 = 20$

Cost_per_qty → Rs 5

$$4 \times 5 = \frac{20}{\textcircled{1}}$$

↑ ?

marketdate	c_id	q5	cost	total_amt
		4	5	20
		5	10	50

SELECT

Alias

qty  cost AS total_amt

multiplication

ffon —

SQL → in-built functions

2 digits after
the decimal

$$f(x) \rightarrow 0$$

Round off

parameters → $\lceil T \rceil = 11$
 $\frac{q}{opr}$
 $\frac{expr}{q}$
 $\frac{\text{quantity}}{\text{expr}}$
 $\rightarrow \text{ROUND } (\underline{\text{expr}}, 2) \text{ AS } \underline{\quad}$

Q: Concatenate the first-name & last-name
 to give a full-name column in the
output.

customerid	fname	lname	full-name
			JANE C
			Deanna W

$\rightarrow \text{CONCAT } (\underline{\quad}, \underline{\quad}, \underline{\quad})$
 $\frac{\text{SubStr}}{\text{q}}$
Substring

$\text{substr} (\text{fname}, \frac{1}{\uparrow}, 1)$

