

SQL 01 - Extracting data using SQL

Recap:

RDBMS

Keys

Schema

Relationships

DW, DB

Big Q. setup.

Data types.

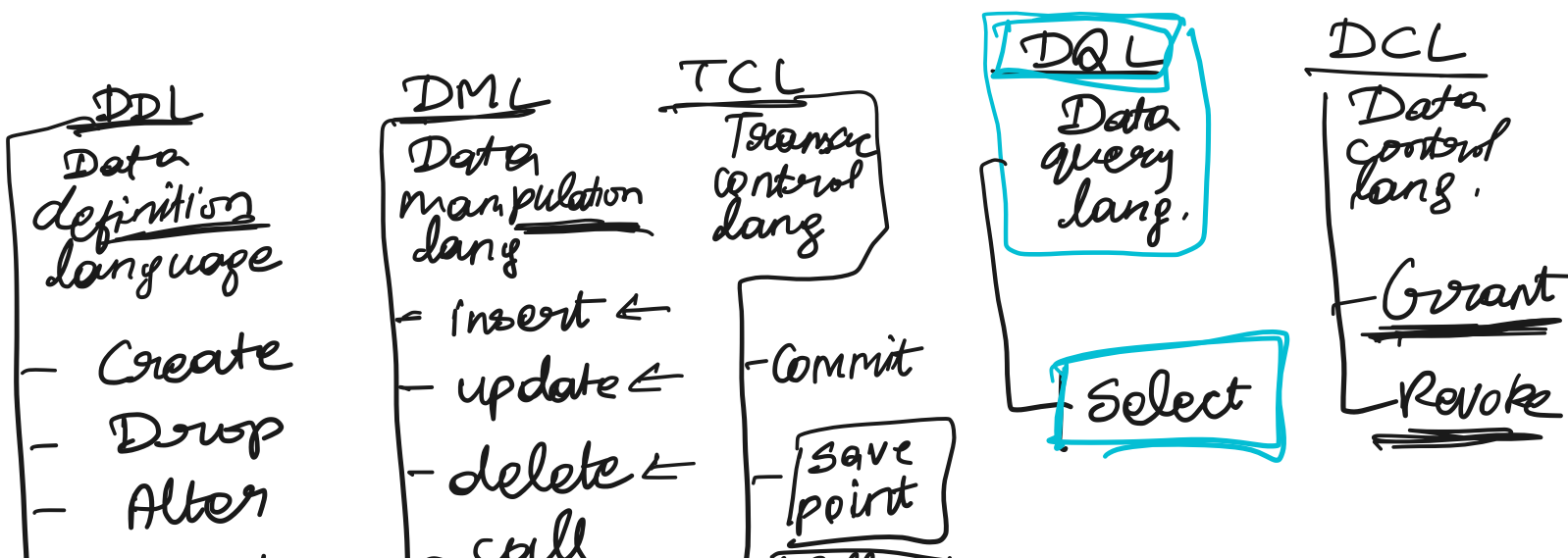
Agenda:

- Basic SQL commands.
- - Select statement working with numeric & string.

What is the language to interact with Table?

SQL - Structured Query Language.

There are diff. types of SQL commands.



Truncate

lock.

Rollback
set. tran
set
constraint

Select statement syntax

Select

*

from

Farmers-market-Product

show me

every column.

from

DBname . Tablename

What if we want only few columns?

Select product-id, product-name
from FM.products.

Select * → is not always recommended.

- Assume there are 100 columns.



↓
In future 2 more columns
are added



select *
from

This will fail

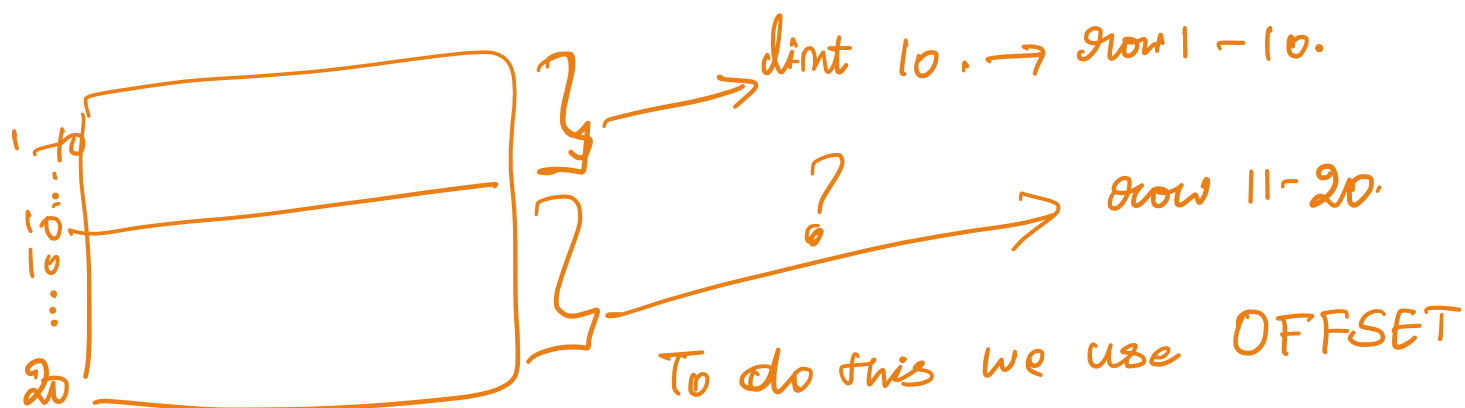
Built a
ML model



How to look at a sample of 5 rows.

Select *
from
DB.tablename
Limit N

→ show me
all columns
from
this DB table
and only N rows
N - can be any real number



Syntax:

Select *
from DB.tbl
Limit 10
✓ OFFSET 3

→ Give me all columns
from DB.tbl
but only 10 rows after
skipping the first
3 Rows

This will be

2	rows
3	skipped
4	The next
⋮	10 Rows is
13	displayed

Sorting:

Reordering the rows based on a column / columns in Ascending / Descending order.

Select
*
from
DB.tblname



give me all rows from
this DB.tbl
and order it based
on the column name

Order by column
name

• By default it is ascending.
(ASC)

if descending - DESC

To sort in descending
give this keyword - DESC

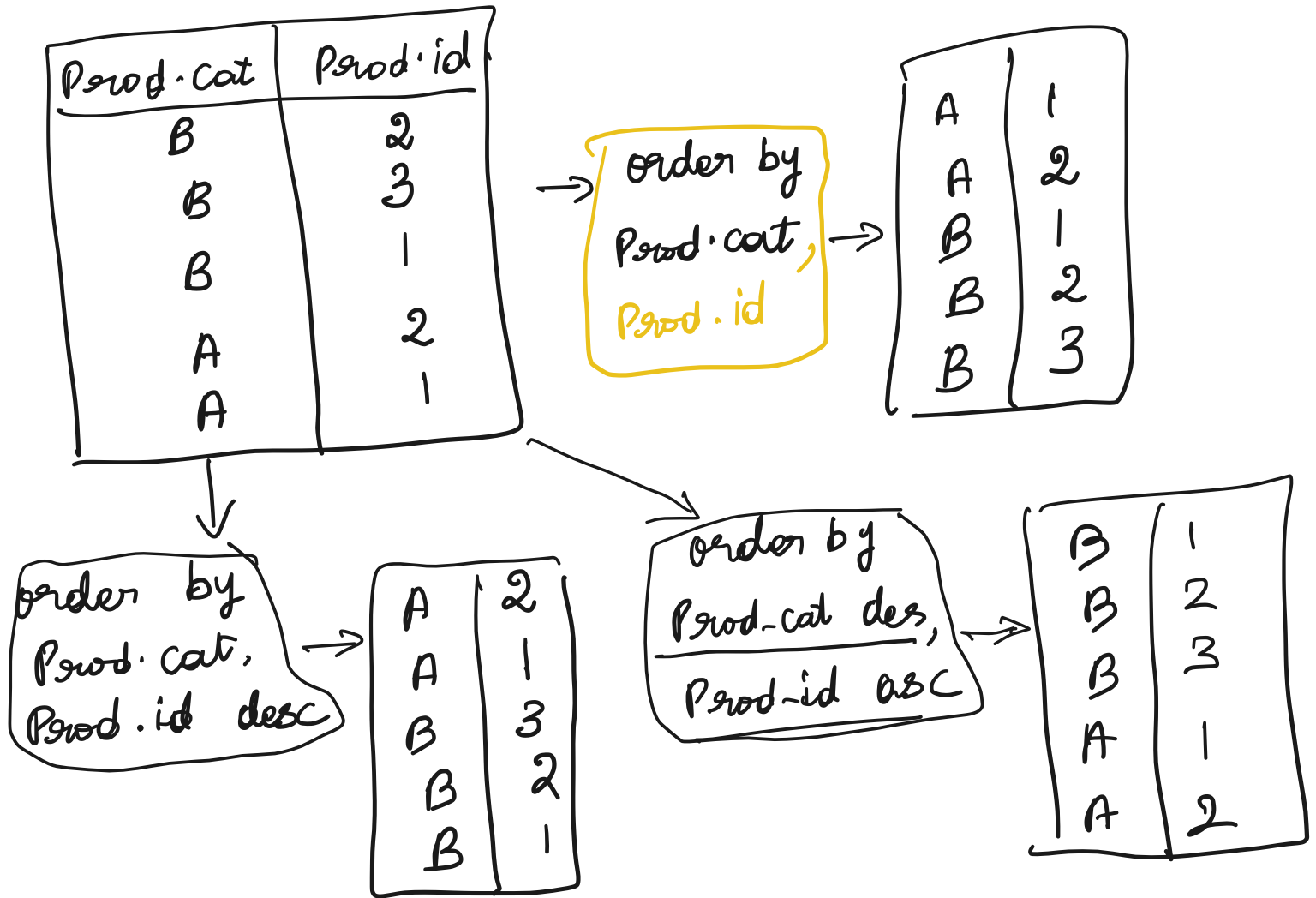
Adding limit

Select * from DB.tblname
order by col.name ASC/DESC
limit 10

→ Sequence of writing query.

| Select

From
order by
Limit
↓
OFFSET



Inline calculations:

This helps to do math operation on the columns

Alias:

Giving a name to a column, or changing the

Giving a name
name of a column.

Functions in SQL

Each function performs a task.

Round (column
or
calculator, 2) → Round-off
decimal

Fname	Lname
Jane	Connor

Jane Connor

Concat (Fname, " ", Lname)

Substr (colname, starting
position, length of
characters
to extract)

Jackson.

Substr (↓, 2, 4) → acks
(↓, 4, 3) → kso

Michael substr (, -3, 2)
↓
-3 → ae