SQL

Relevel
by Unacademy

ISt : RDBMS $\lbrace$ client $\rbrace$ $\longrightarrow$ SQL $\lbrace$ DDL $\longrightarrow$ D.E
                         server   DML $\longrightarrow$
                                                 DCL $\longrightarrow$ D.E
                                                 TCL
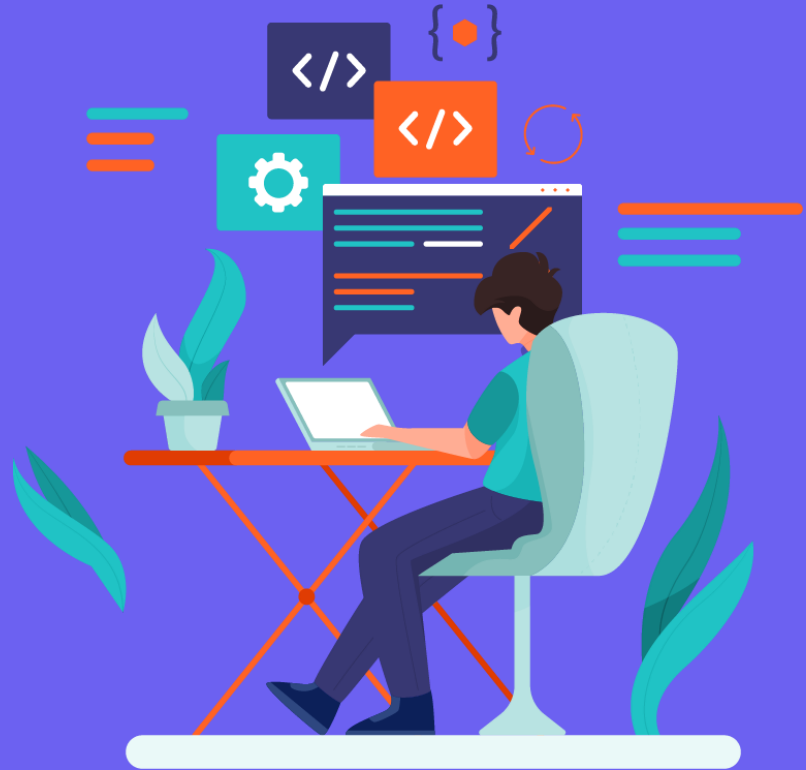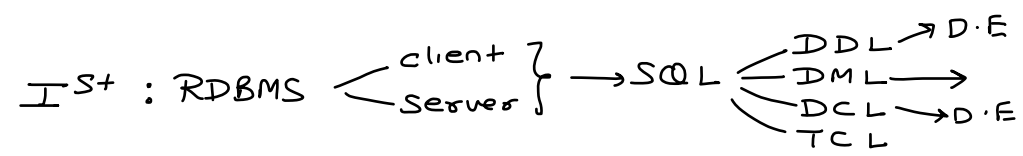
IInd : DDL / DCL

$\lbrace$
• How to create a Database /table — create table
• Insert the data into a table
• Alteration
• Add a new row/delete

DML :   IIIrd

                    $\longrightarrow$ all rows /coloumns
$\lbrace$ Select * from $\rbrace$ $\longrightarrow$ view the table
   table-name;

Counting and counting unique →

Just counting the number of rows

E.id	Name	Sal	Dep.id
01	A a	32	D1
02	Ab	33	D2
03	Ac	31	D2
04	Ad	33	D1

Count (E.id) ⟶ 4
Count (Name) ⟶ 4   Count (*)
Count (Sal) ⟶ 4
Count (Dep.id) ⟶ 4

Select count(*)
from sessionwithsumit.employee_data;

④

filter

Employee-data →

E.id	Name	Dep.id	Sal
01	Aa	D1	5
02	Ab	D1	5
03	Ac	D2	7
04	Ad	D1	2
05	Ae	D2	4
06	Af	D1	3

churn	avg (tenure)
Yes	
No	

→ Group By

find Department-id wise avg-Salary.

Dep.id	avg(Sal)
D1	5
D2	10.5

Select *
from employee-data
where Dep.id = 'D1';

→ condition

we want to filter

Select Dep.id, avg(Sal)
from employee-data
group by Dep.id;

grouping
&
aggregation

Select
↓
from
↓
where
↓
groupby
↓
orderby

$$\left\{\begin{array}{l} \text{Select department-id, avg(salary)} \\ \text{from employees-data} \\ \text{where salary} > 10000 \\ \text{groupby department-id} \\ \text{orderby avg(salary) desc;} \end{array}\right.$$

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