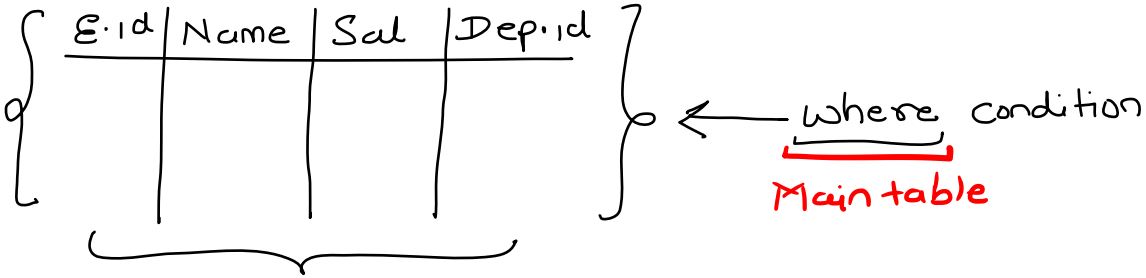
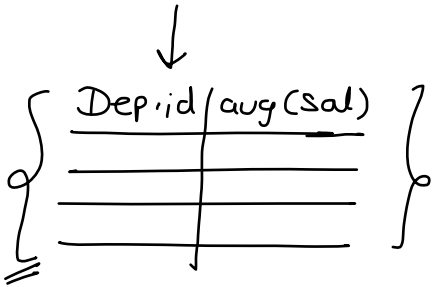
SQL

Relevel
by Unacademy

emp



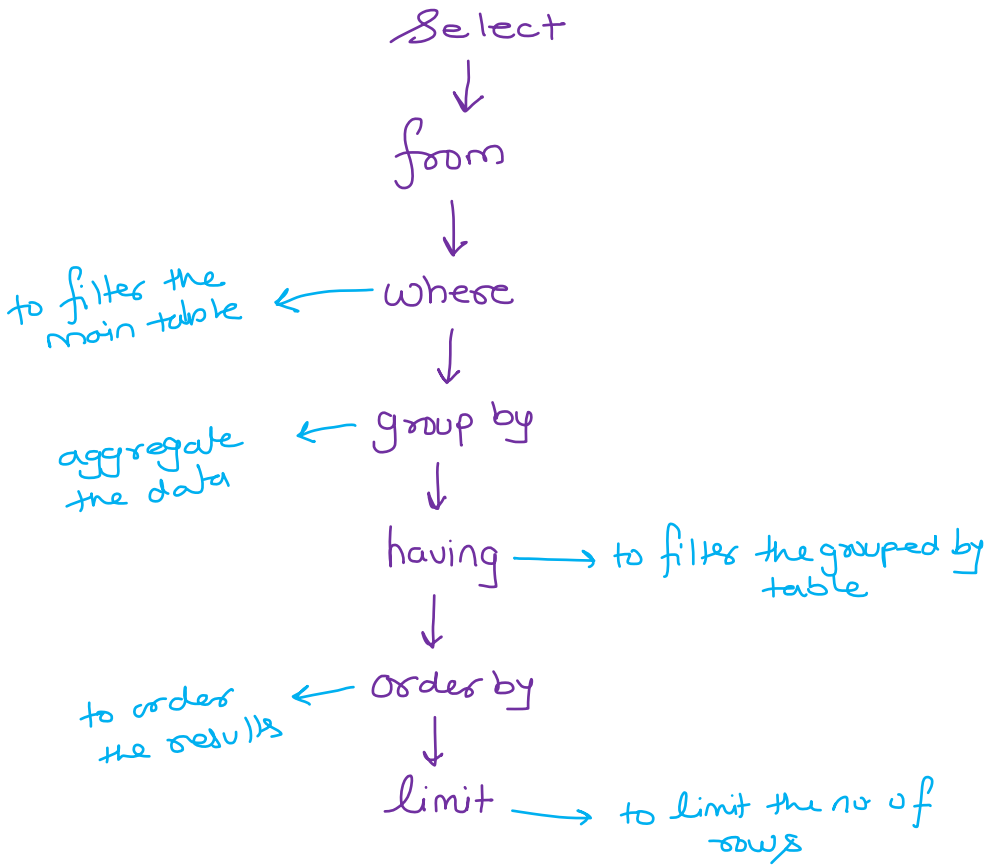


find those departments with avg(salary) > 10,000

If we have to filter table generated after applying group by

having (Group By table)

```
Select dep·id, avg(salary)
from emp
group by Dep·id
having avg(salary) > 10000
```


Select
from
where
to filter the main table
group by
aggregate the data
having
to filter the grouped by table
order by
to order the results
limit
to limit the no of rows

Joins

Database
- Table-1
- Table-2
- Table-3

(primary field + forigen field)

Dep

Emp

E.id	Name	Dep.id

Primary field

forigen field

Dep.id	Dep Name

Primary field

Joins
- inner
- Left
- Right

=

Left ← Emp

E.id	Name	Dep.id
E1	A	D7
E2	B	D1
E3	C	D2
E4	D	D6
E5	E	D6
E6	f	D2
E7	G	D5

Dep → Right

Dep.id	Dep Name
D1	Aa
D2	Ba
D3	cd
D4	fg
D5	Jk

Left Join : All rows from left table and common rows from right

E.id	Name	Dep.id	Dep.id	Dep-Name
E1	A	D7	NA	NA
E2	B	D1	D1	Aa
E3	C	D2	D2	Ba
E4	D	D6	NA	NA
E5	E	D6	NA	NA
E6	f	D2	D2	Ba
E7	G	D5	D5	Jk

Inner Join : Rows which are common to both the tables are joined

E.id	Name	Dep.id	Dep.id	Dep Name
E2	B	D1	D1	Aa
E3	C	D2	D2	Ba
E6	f	D2	D2	Ba
E7	G	D5	D5	Jk

Right Join : All rows from right table and common rows from left table.

E.id	Name	Dep.id	Dep.id	Dep Name
E2	B	D1	D1	Aa
E3	C	D2	D2	Ba
E6	f	D2	D2	Ba
NA	NA	NA	D3	cd
NA	NA	NA	D4	fg
E7	G	D5	D5	Jk