GROUP 184 - Group by is used to group the data based on specified conditions. It group the values of all nows of specified conditions

ORDER BY - Order by is a clause it arranges the data in ascending or Descending order based on specified column.

HAVING - Having is a clause, it perform opera.

- tions after the Group By, this means

- the values consists after grouped data

will be retrived based on having

condition.

of columns to check the give specified condition wheather its "True" or "False". If "True" it retrives the data of given condition.

INFOSYS 7	ABLE			
Employee ID	Salary	Department]	Working hours	Manager ID
1001	20,000	Py-thon	8	4520
1005	30,000	Azure	8	4520
10011	25000	AWS	10	4520
0055	40000	SQL	303300	4502
2011	15000	SQL	quar 7	4523
2012	20000	Data Scien	12	4522
		and to som	in ant	

Note: GROUP BY is often used with functions like COUNTI), MINC), MANU, ANGU, SOMU.

GROUP BY:

SELECT Department, SUM (salary)

FROM INFOSYS

GROUP BY Department

Department,	sm(salony).
python	201000
Azue	30000
AWS	25000
39L	55000
pala science	50000

GROUP BY with where clause:

SELECT DEPAY ANG (Salary), Working hours
FROM INFOSYS

WHERE Working hours < 8 GROUP BY Working hows.

Working he	ous ANG (SALARY)
7	27500

Note: Group by is followed after where danse --> WHERE ---> GROUP BY.

Group by with "where" and "Having clause".

SELECT Employee ID, Salary, Department, count (*)

From INFOSYS

WHERE working hows 28

GROUP BY Employee ID

HANING Salary > 20,000

	War Alla Alla	
Count (Empolyee ID),	salary	Department.
2	30000	Azue
1	25000	AWS
00000 x x y x fee	50000	pata science.

Note: Group by is followed between where and taxing clause

--> WHERE ---> GROUP BY ---> HAVING

· Logical Operators:

AND - AND operators compares the condition values and if true it retrives the following data.

Note: Motors Retrives data only when both the conditions are "True".

or - or operators check the condition values if any one of the condition satisfied (The it zetrives the following data of "Tene".

NOT - NOT operators excludes the given specified list values and retrives the data cohich are not in list.

SELECT Department, salary, Employee ID

FROM INFOSYS

WHERE Repartment = "SQL" AND Salary>= 40000

Department	Salary	Employee ID
SQL	40000	0002

SELECT Department, salary, Forployee ID

FROM INFOSYS

WHERE Department = "python" OR salary < 20000

Department	· salary	Bmployee ID
Python	20000	1001

Note: Firen though salary is False it getrives the Department values.

SELECT Department, salary, Employee ID

FROM INFOSYS

WHERE Salary NOT Salary = [20000, 30000, 50000]

salary	Employee ID
25000 000	1100
40000000	0022
15000	2011
	40000000

Between 1 IN operators

Between operators displays the 1000 Between Values in the following range.

IN operators returns the values which are matching in the lists. IN

SELECT Rapartment, salary

FROM INFOSYS

WHERE Salary BETWEEN 25000 AND 40000

7	olona C	2
1	Department	salary.
	25000	AWS
	30000	Azue
	40000	SQL

SELECT Department, salary
PROM INFOSYS

WHERE Salary NOT BETWEEN 2000 AND 40000

salary
Python
-Arma SQL
Data science

SELECT Department, Salary
FROM INFOSYS

WHERE salary IN (25000, 30000)

Appartment	Salany
AWS	25000
Azule	30000

SELECT Department, salay.

FROM INFOSYS

INHERE Salary NOT IN (25000, 30000, 40000, 20000)

-	
Department	salary
SQL	15000
Aata science	50000

LIKE clause: "Like" is a logical operator that search & matches the pattern by was using wildcard operators.

SELECT Repartment WHERE Repartment LIKE '8%'

SELECT Repartment WHERE Repartment LIKE '60e'

Azuse

Rata science

SELECT Repartment WHERE Repartment LIKE '5%'L'

SELECT Repartment WHERE Repartment LIKE '5%'L'

SELECT Repartment WHERE Repartment LIKE '16%'L'

SELECT Repartment WHERE Repartment LIKE '16%'L'

Azure!