

## GROUP & FILTERING

### GROUPING :    **GROUP BY Clause**

Group by clause is used to *group the records* .

#### **SYNTAX:**

```
SELECT group_by_expression / group_function FROM  
table_name  
[WHERE <filter_condition>]
```

#### **ORDER OF EXECUTION:**

```
1-FROM  
2-WHERE(if used) [ROW-BY-ROW]  
3-GROUP BY      [ROW-BY-ROW]  
4-SELECT        [GROUP-BY-GROUP]
```

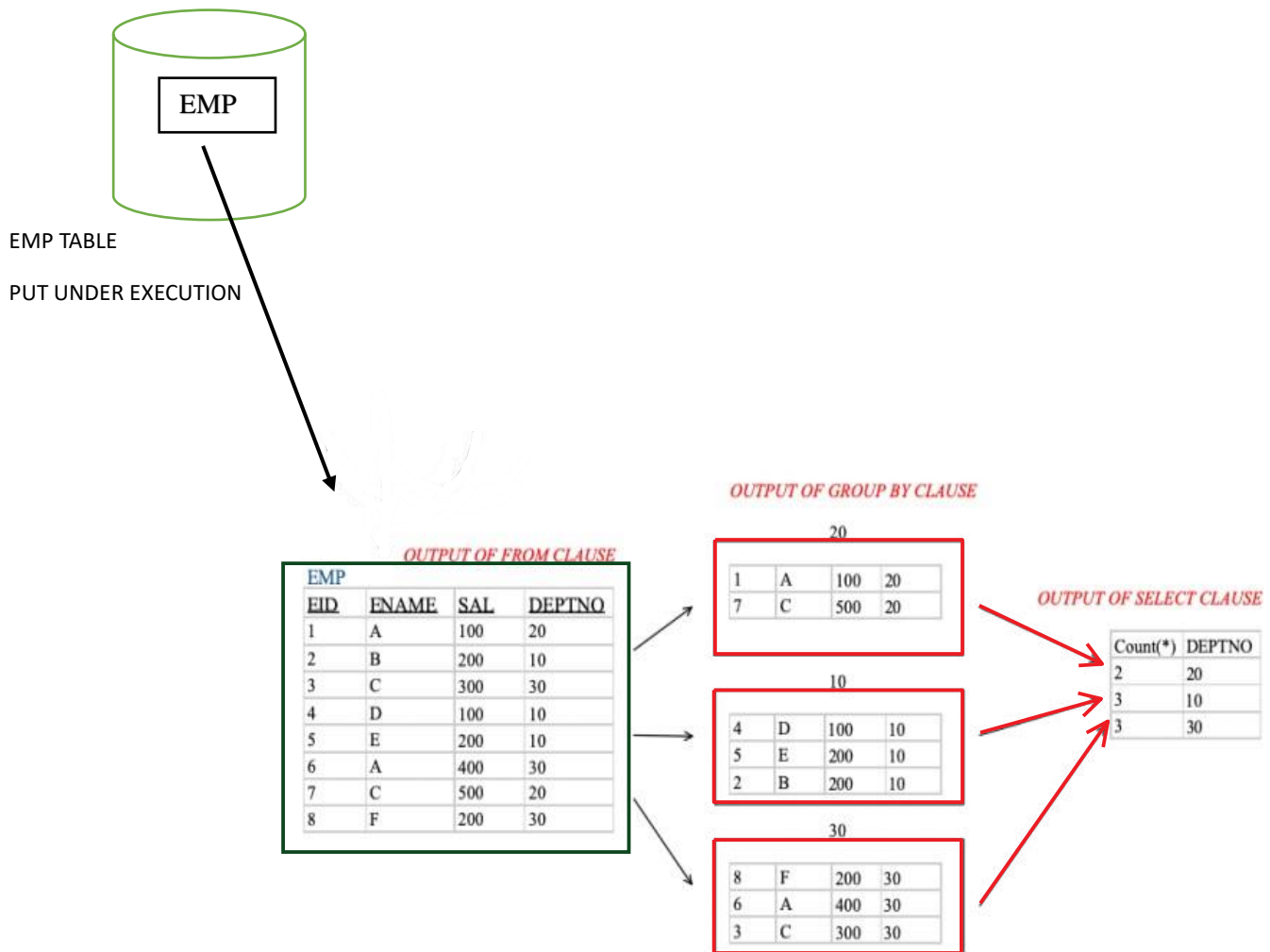
Example :

#### **EMP**

<u>EID</u>	<u>ENAME</u>	<u>SAL</u>	<u>DEPTNO</u>
1	A	100	20
2	B	200	10
3	C	300	30
4	D	100	10
5	E	200	10
6	A	400	30
7	C	500	20
8	F	200	30

- WAQTD number of employees working in each dept .

```
SELECT COUNT(*)  
FROM EMP  
GROUP BY DEPTNO ;
```



### **NOTE :**

- Group By clause is used to group the records .
- Group By clause executes row by row .
- After the execution of Group By clause we get Groups .
- Therefore any clause that executes after group by must execute Group By Group .
- The Column\_Name or expression used for grouping can be used In select clause .
- Group By clause can be used without using Where clause .

### **Questions :**

1. WAQTD number of employees working in each dept except the Employee working as analyst .

```
SELECT DEPTNO , COUNT(*)  
FROM EMP  
WHERE JOB NOT IN 'ANALYST'  
GROUP BY DEPTNO ;
```

2. WAQTD maximum salary given to each job .

```
SELECT JOB , MAX( SAL )  
FROM EMP  
GROUP BY JOB ;
```

3. WAQTD number of employees working in each job if the employees Have character 'A' in their names .

```
SELECT JOB , COUNT(*)  
FROM EMP  
WHERE ENAME LIKE '%A%'  
GROUP BY JOB ;
```

4. WAQTD number of employees getting commission in each dept .

```
SELECT DEPTNO , COUNT( COMM )  
FROM EMP  
GROUP BY DEPTNO ;
```