

SQL - GROUP BY

The SQL **GROUP BY** clause is used in collaboration with the **SELECT** statement to arrange identical data into groups.

The **GROUP BY** clause follows the **WHERE** clause in a **SELECT** statement and precedes the **ORDER BY** clause.

Syntax:

The basic syntax of **GROUP BY** clause is given below. The **GROUP BY** clause must follow the conditions in the **WHERE** clause and must precede the **ORDER BY** clause if one is used.

```
SELECT column1, column2
FROM table_name
WHERE [ conditions ]
GROUP BY column1, column2
ORDER BY column1, column2
```

Example:

Consider **CUSTOMERS** table is having following records:

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
2	Khilan	25	Delhi	1500.00
3	kaushik	23	Kota	2000.00
4	Chaitali	25	Mumbai	6500.00
5	Hardik	27	Bhopal	8500.00
6	Komal	22	MP	4500.00
7	Muffy	24	Indore	10000.00

If you want to know the total amount of salary on each customer, then **GROUP BY** query would be as follows:

```
SQL> SELECT NAME, SUM(SALARY) FROM CUSTOMERS
      GROUP BY NAME;
```

This would produce following result:

NAME	SUM(SALARY)
Chaitali	6500.00
Hardik	8500.00
kaushik	2000.00
Khilan	1500.00
Komal	4500.00
Muffy	10000.00
Ramesh	2000.00

Using above example you would not have a good explanation. So now let us has following table where **CUSTOMERS** table has following records:

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00

	2		Ramesh		25		Delhi		1500.00	
	3		kaushik		23		Kota		2000.00	
	4		kaushik		25		Mumbai		6500.00	
	5		Hardik		27		Bhopal		8500.00	
	6		Komal		22		MP		4500.00	
	7		Muffy		24		Indore		10000.00	
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Now again, if you want to know the total amount of salary on each customer, then GROUP BY query would be as follows:

```
SQL> SELECT NAME, SUM(SALARY) FROM CUSTOMERS
      GROUP BY NAME;
```

This would produce following result:

	NAME		SUM(SALARY)	
+-----+				
	Hardik		8500.00	
	kaushik		8500.00	
	Komal		4500.00	
	Muffy		10000.00	
	Ramesh		3500.00	
+-----+				