## **SQL - SORTING Results**

The SQL **ORDER BY** clause is used to sort the data in ascending or descending order, based on one or more columns. Some databases sort the query results in an ascending order by default.

## **Syntax**

The basic syntax of the ORDER BY clause which would be used to sort the result in an ascending or descending order is as follows –

```
SELECT column-list
FROM table_name
[WHERE condition]
[ORDER BY column1, column2, .. columnN] [ASC | DESC];
```

You can use more than one column in the ORDER BY clause. Make sure that whatever column you are using to sort, that column should be in the column-list.

## **Example**

Consider the CUSTOMERS table having the following records –

		•	•	•	SALARY
		_	_	_	2000.00
	2	Khilan	25	Delhi	1500.00
	3	kaushik	23	Kota	2000.00
	4	Chaitali	25	Mumbai	6500.00
1.	5	Hardik	27	Bhopal	8500.00
	6	Komal	22	MP	4500.00
1.	7	Muffy	24	Indore	10000.00

Following is an example, which would sort the result in an ascending order by NAME and SALARY.

```
SQL> SELECT * FROM CUSTOMERS
ORDER BY NAME, SALARY;
```

This would produce the following result -

The following code block has an example, which would sort the result in a descending order by NAME.

```
SQL> SELECT * FROM CUSTOMERS
ORDER BY NAME DESC;
```

This would produce the following result -

To fetch the rows with their own preferred order, the SELECT query used would be as follows -

```
SQL> SELECT * FROM CUSTOMERS

ORDER BY (CASE ADDRESS

WHEN 'DELHI' THEN 1

WHEN 'BHOPAL' THEN 2

WHEN 'KOTA' THEN 3

WHEN 'AHMEDABAD' THEN 4

WHEN 'MP' THEN 5

ELSE 100 END) ASC, ADDRESS DESC;
```

This would produce the following result –

I		'		ADDRESS	-
+ 				Delhi	
,	5	Hardik	27	Bhopal	8500.00
	3	kaushik	23	Kota	2000.00
1.	6	Komal (	. 22	MP	4500.00
1.	4	Chaitali	, 25	Mumbai,	6500.00
1.	7	Muffy, a g	24	Indore, , , ,	10000.00
1.	1	Ramesh	32	Ahmedabad	2000.00

This will sort the customers by ADDRESS in your **ownoOrder** of preference first and in a natural order for the remaining addresses. Also, the remaining Addresses will be sorted in the reverse alphabetical order.