ORDER BY clause

ORDER BY clause

- The ORDER BY clause orders or sorts the result of a query according to the values in one or more specific columns.

- More than one columns can be ordered one within another. It depends on the user that, whether to order them in ascending or descending order.

- The default order is ascending.

The SQL ORDER BY clause is used with the SQL SELECT statement.

Note: SQL ORDER BY clause always come at the end of a SELECT statement.

Syntax:
SELECT <column_list>
FROM < table name >
WHERE <condition>
ORDER BY <columns> [ASC | DESC];

Sample table: agents

```
+------------+--------------+----------------+------------+--------------+----------+
| AGENT_CODE | AGENT_NAME   | WORKING_AREA   | COMMISSION | PHONE_NO     | COUNTRY  |
+------------+--------------+----------------+------------+--------------+----------+
| A007       | Ramasundar   | Bangalore      |       0.15 | 077-25814763 |          |
| A003       | Alex         | London         |       0.13 | 075-12458969 |          |
| A008       | Alford       | New York       |       0.12 | 044-25874365 |          |
| A011       | Ravi Kumar   | Bangalore      |       0.15 | 077-45625874 |          |
| A010       | Santakumar   | Chennai        |       0.14 | 007-22388644 |          |
| A012       | Lucida       | San Jose       |       0.12 | 044-52981425 |          |
| A005       | Anderson     | Brisban        |       0.13 | 045-21447739 |          |
| A001       | Subbarao     | Bangalore      |       0.14 | 077-12346674 |          |
| A002       | Mukesh       | Mumbai         |       0.11 | 029-12358964 |          |
| A006       | McDen        | London         |       0.15 | 078-22255588 |          |
| A004       | Ivan         | Torento        |       0.15 | 008-22544166 |          |
| A009       | Benjamin     | Hampshair      |       0.11 | 008-22536178 |          |
+------------+--------------+----------------+------------+--------------+----------+
```

- Find the agent name, working area and commision; sort the result by agent code ascending order.

- To get 'agent_name','working_area' and 'commission' from the

  'agents' table with following condition -

  agent_code' should come in descending order.

- Find the agent name, working area and commision; sort the result by agent code ascending order.

SELECT agent_code,agent_name,working_area,commission

FROM agents

ORDER BY agent_code;

AGENT_CODE	AGENT_NAME	WORKING_AREA	COMMISSION
A001	Subbarao	Bangalore	.14
A002	Mukesh	Mumbai	.11
A003	Alex	London	.13
A004	Ivan	Torento	.15
A005	Anderson	Brisban	.13
A006	McDen	London	.15
A007	Ramasundar	Bangalore	.15
A008	Alford	New York	.12
A009	Benjamin	Hampshair	.11
A010	Santakumar	Chennai	.14
A011	Ravi Kumar	Bangalore	.15
A012	Lucida	San Jose	.12

To get 'agent_name','working_area' and 'commission' from the 'agents' table with following condition -

- 'agent_code' should come in descending order,

The following SQL statement can be used :

SELECT agent_code,agent_name,working_area,commission
FROM agents
ORDER BY agent_code DESC;

AGENT_CODE	AGENT_NAME	WORKING_AREA	COMMISSION
A012	Lucida	San Jose	.12
A011	Ravi Kumar	Bangalore	.15
A010	Santakumar	Chennai	.14
A009	Benjamin	Hampshair	.11
A008	Alford	New York	.12
A007	Ramasundar	Bangalore	.15
A006	McDen	London	.15
A005	Anderson	Brisban	.13
A004	Ivan	Torento	.15
A003	Alex	London	.13
A002	Mukesh	Mumbai	.11
A001	Subbarao	Bangalore	.14

Ordering by more than one columns

- You can use the ORDER BY clause to sort the result of a query according to the values in more than one columns.

- To get 'agent_name', 'working_area' and 'commission' from the 'agents' table with following conditions -

1. 'working_area' should come in ascending order first,

2. within the same 'working_area', 'agent_code' should come in ascending order.

The following SQL statement can be used :

SELECT agent_code,agent_name,working_area,commission

FROM agents

ORDER BY working_area,agent_code;

AGENT_CODE	AGENT_NAME	WORKING_AREA	COMMISSION
A001	Subbarao	Bangalore	.14
A011	Ravi Kumar	Bangalore	.15
A005	Anderson	Brisban	.13
A010	Santakumar	Chennai	.14
A009	Benjamin	Hampshair	.11
A003	Alex	London	.13
A006	McDen	London	.15
A002	Mukesh	Mumbai	.11
A008	Alford	New York	.12
A012	Lucida	San Jose	.12
A004	Ivan	Torento	.15

Ordering by more than one columns in ascending or descending order

- You can use the ORDER BY clause to sort the result of a query on

  multiple columns in various order (ascending or descending).

  SELECT agent_code,agent_name,working_area,commission

  FROM agents

  ORDER BY working_area ASC, commission DESC;

AGENT_CODE	AGENT_NAME	WORKING_AREA	COMMISSION
A011	Ravi Kumar	Bangalore	.15
A001	Subbarao	Bangalore	.14
A005	Anderson	Brisban	.13
A010	Santakumar	Chennai	.14
A009	Benjamin	Hampshair	.11
A006	McDen	London	.15
A003	Alex	London	.13
A002	Mukesh	Mumbai	.11
A008	Alford	New York	.12
A012	Lucida	San Jose	.12
A004	Ivan	Torento	.15