



**WHERE Clause, ORDER BY Clause,
GROUP BY Clause, HAVING Clause**



WHERE Clause

- **WHERE** clause is used to specify a condition while fetching the data from a single table or by joining with multiple tables.
- If the given condition is satisfied, then only it returns a specific value from the table.
- We use the WHERE clause to filter the records and fetching only the necessary records.
- The WHERE clause is not only used in the SELECT statement, but it is also used in the UPDATE, DELETE statement, etc.
- `SELECT column1, column2, columnN`

`FROM table_name`

`WHERE [condition]`



ORDER BY Clause

- **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.
- SELECT column-list

FROM table_name

[WHERE condition]

[ORDER BY column1, column2, .. columnN] [ASC | DESC];



GROUP BY Clause

- **GROUP BY** clause is used in collaboration with the SELECT statement to arrange identical data into groups.
- like "find the number of customers in each country".
- Often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- GROUP BY clause follows the WHERE clause in a SELECT statement and precedes the ORDER BY clause
- SELECT column1, column2

FROM table_name

WHERE [conditions]

GROUP BY column1, column2

ORDER BY column1, column2



HAVING Clause

- **HAVING Clause** enables you to specify conditions that filter which group results appear in the results.
- The WHERE clause places conditions on the selected columns.
- Whereas the HAVING clause places conditions on groups created by the GROUP BY clause.
- The HAVING clause must follow the GROUP BY clause in a query and must also precede the ORDER BY clause if used.
- `SELECT column1, column2`

`FROM table1, table2`

`WHERE [conditions]`

`GROUP BY column1, column2`

`HAVING [conditions]`

`ORDER BY column1, column2`