

- The cornerstone of the most powerful and complex statement in SQL
- Retrieve information from tables in your database
- Use SELECT in conjunction with other keywords and clauses to find and view information
- SELECT can help you answer questions regarding: who, what, where, when, what if and how many

Select Column1, Column2, ...

From Table1, Table2, ...

(Where) Condition1 and Condition2 or Condition3 ...

Select

- ➤ The primary clause of the SELECT statement
- > Specify the columns you want in the result set of your query

• From

➤ Specify the tables or views from which to draw the columns you have listed in the SELECT clause

Where

Filter the rows returned by the FROM clause

• In <u>database management</u> an **aggregate function** is a <u>function</u> where the values of multiple rows are grouped together to form a single value of more significant meaning or measurement such as a <u>set</u>, a <u>bag</u> or a <u>list</u>.

--Wikipedia



Common aggregate function include:

- Maximum/minimum()
- Count()
- Maximum
- Median()
- Mode()
- Sum()
- Avg()

```
Select Column1, Column2, ...
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From Table1, Table2, ...

(Where) Condition1 and Condition2 or Condition3 ...

(Group By) Column name

(Having) Condition

Group By

- The group by statement is often used with aggregate functions (count, max, min, sum, avg) to group the result-set by one or more columns
- ➤ Use any column or list of columns following the GROUP BY keywords as grouping columns



Having

- > Filter the result of aggregate functions in grouped information
- The HAVING clause was added to SQL because the WHERE keyword could not be used with aggregate functions



Differences between where and having?

Condition specified in WHERE clause is used while fetching data(rows) from table, and data
which doesn't pass the condition will not be fetched into result set, on the other hand
HAVING clause is later used to filter summarized data or grouped data.

 A WHERE clause must come BEFORE the GROUP BY, and it filters the rows

 A HAVING clause must come AFTER the GROUP BY, and it filters the group



Coding

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