# **Pre-Joining Topics**

### Week 2: MYSQL ADVANCED

### AGGREGATE FUNCTIONS

**MySQL** Aggregate Functions are used to calculate values from multiple rows and return a single result, helping in summarizing and analyzing data. They include functions for counting, summing, averaging, and finding maximum or minimum values, often used with the **GROUP BY** clause.

#### Syntax:

SELECT AGGREGATE\_FUNCTION(column\_name)
FROM table\_name
WHERE condition;

#### Where,

- AGGREGATE\_FUNCTION(): The aggregate function you want to use (e.g., COUNT, SUM).
- **column\_name:** The column on which the function is applied.
- **table\_name:** The name of the table from which to retrieve the data.
- condition: An optional WHERE clause to filter the rows.

### Count()

The **COUNT()** function returns the number of rows that match a specified condition. It can count all rows or only rows that meet certain criteria.

#### Example:

SELECT COUNT(\*) AS total employees FROM employees;

#### SUM()

The **SUM()** function returns the total sum of a numeric column.

#### **Example:**

SELECT SUM(salary) AS total\_sales FROM employees;

#### AVG()

The <b>AVG()</b> function returns the average value of a numeric colum	n returns the average value of a numeric columr	١.
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### **Example:**

SELECT AVG(salary) AS average\_salary FROM employees;

## MAX()

The MAX() function returns the maximum value in a set of values.

### Example:

SELECT MAX(salary) AS highest\_salary FROM employees;

# MIN()

The MIN() function returns the minimum value in a set of values.

### **Example:**

SELECT MIN(salary) AS lowest\_salary FROM employees;

References:

GeeksForgeeks