# WEEK 8

# Basic Aggregation Functions



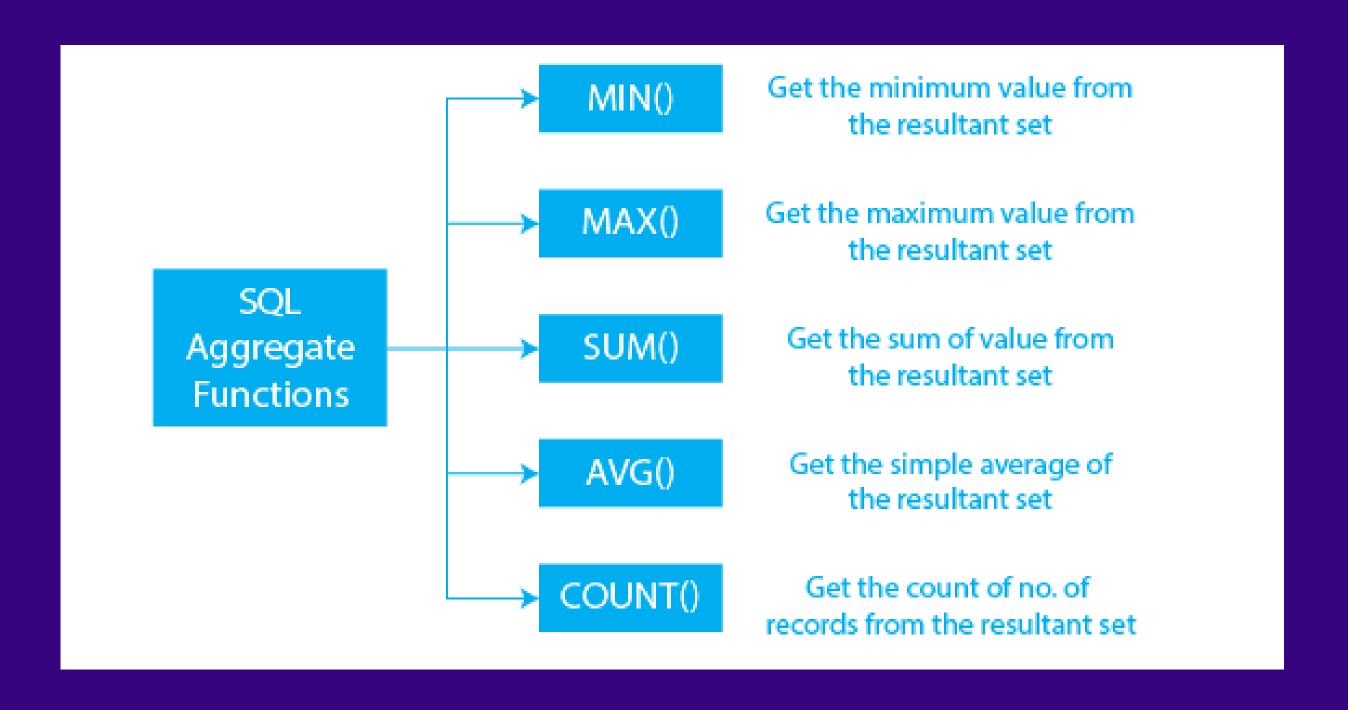
PRESENTED BY FILSAN MUSA & FADUMO DIRIYE

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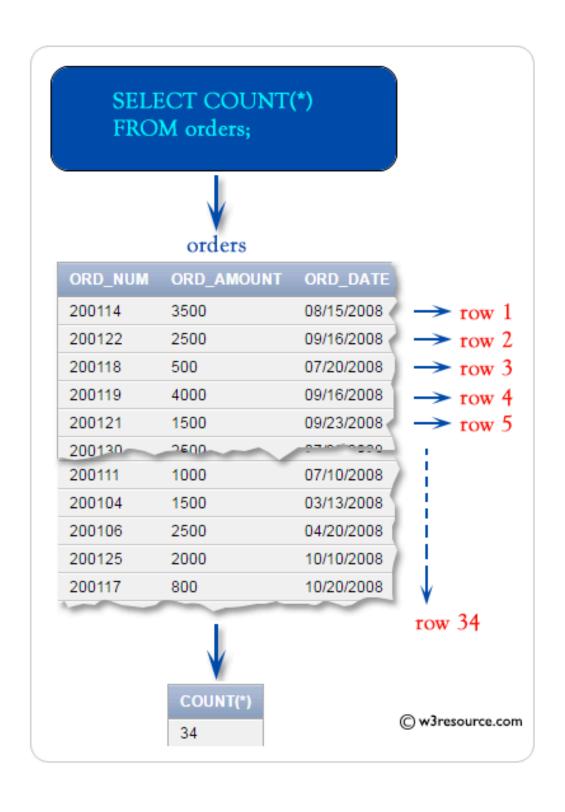
- Understand the purpose of aggregate functions.
- Learn how to use COUNT, SUM, AVG, MAX, and MIN
- Explore scenarios where aggregate functions are most useful.
- Understand how NULL values impact calculations
- Recap and Next Steps

# What are Aggregate Functions?



Aggregate functions perform calculations on a set of values and return a single value.

# **COUNT: Counting Rows**



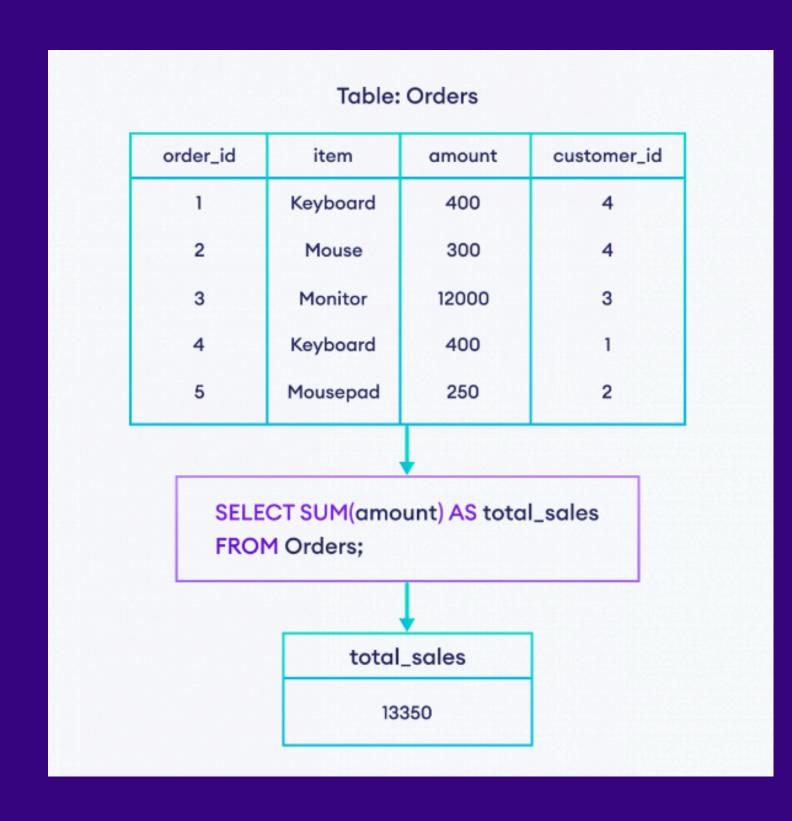
#### Purpose:

• Calculates the number of rows that meet specific conditions.

#### **Explanation:**

Counts all rows, including those with NULL values.

# SUM: Calculating Totals



#### Purpose:

- Adds up all numeric values in a column.
- Useful for totals like sales, expenses, etc.

## Explanation:

Calculates the total sum of (amount).

# **AVG: Calculating Averages**



#### Purpose:

• Finds the mean value of a numeric column.

#### **Explanation:**

Calculates the average of (age)

# MAX: Finding the Maximum Value

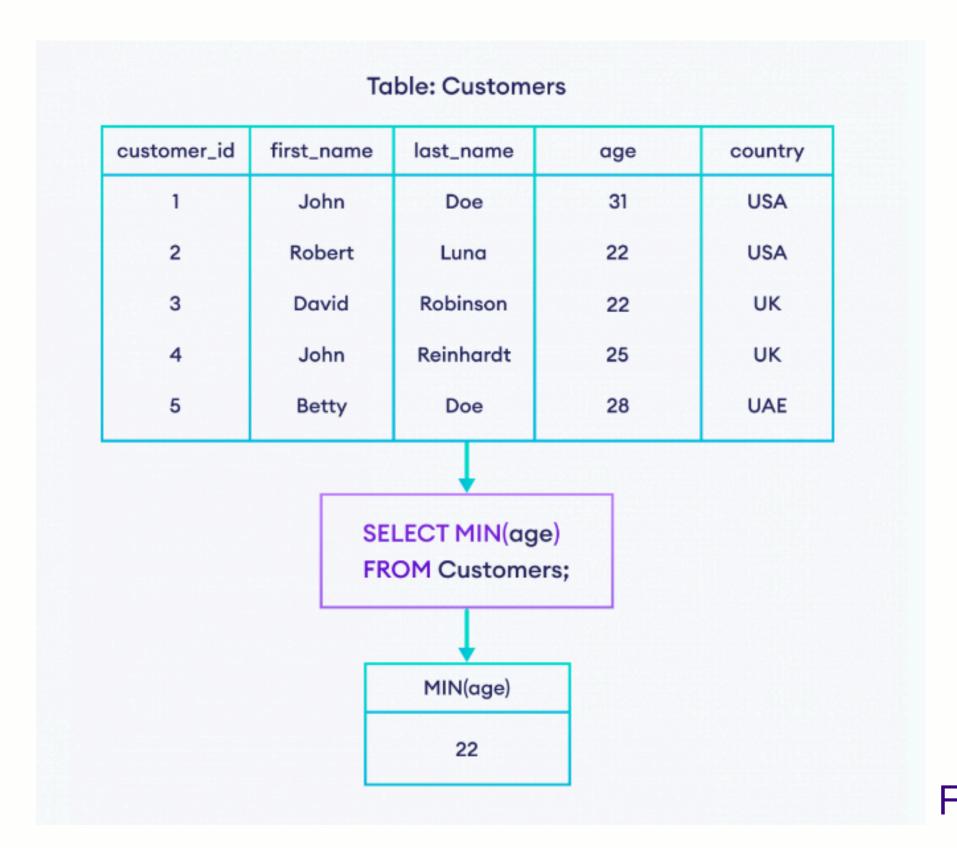


#### Purpose:

• Identifies the highest value in a numeric column.

Explanation: Finds the largest value in the age column

# MIN: Finding the Minimum Value



#### Purpose:

 Identifies the lowest value in a numeric column.

Explanation: Finds the smallest value in the age column.

# Recap and Next Steps

#### • Summary:

- Aggregate functions simplify data analysis.
- COUNT, SUM, AVG, MAX, and MIN are versatile and widely used.
- Handle NULL values carefully when calculating aggregates.

### Next Steps:

Complete Week 8 Quiz

