

Part - 5

# Data Retrieval

## Interview

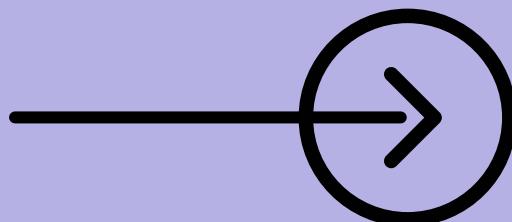
## Questions and Answers...!



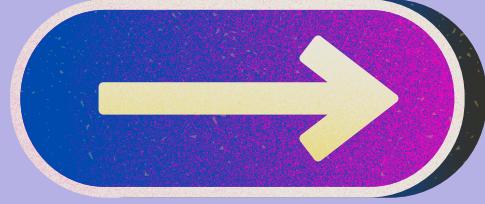
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*krishna kumar*  
@Krishan kumar



**How do we use Case statement  
in SQL? Give example**



# What is a CASE statement in SQL?

→ The CASE statement in SQL is used to add conditional logic to a query.

It checks each condition in sequence and returns a value based on the first condition that is true,

similar to an if-then-else statement in programming.



What happens if no conditions in a CASE statement are true?

# If no conditions in a CASE statement are true

- If no conditions are true, the CASE statement returns the value in the ELSE clause.

If there is no ELSE clause, it returns NULL.



What is the syntax of a CASE statement in SQL?

# Syntax:



CASE

    WHEN condition1 THEN result1

    WHEN condition2 THEN result2

    ELSE default\_result

END



Can you give an example of using a CASE statement in SQL?

# Example:

→ Let's say you have a table of students and their scores. You want to assign a grade based on the score.



SELECT

StudentID,

Name,

Score,

CASE

WHEN Score >= 90 THEN 'A'

WHEN Score >= 80 THEN 'B'

WHEN Score >= 70 THEN 'C'

WHEN Score >= 60 THEN 'D'

ELSE 'F'

END AS Grade

FROM Students;

What does the output of the query look like?

## 5. MAX():

→ For example, if the Students table contains the following data:

StudentID	Name	Score
1	John	85
2	Jane	92
3	Jim	67
4	Jill	78



Then the output would be

# Output:



StudentID	Name	Score	Grade
1	John	85	B
2	Jane	92	A
3	Jim	67	D
4	Jill	78	C

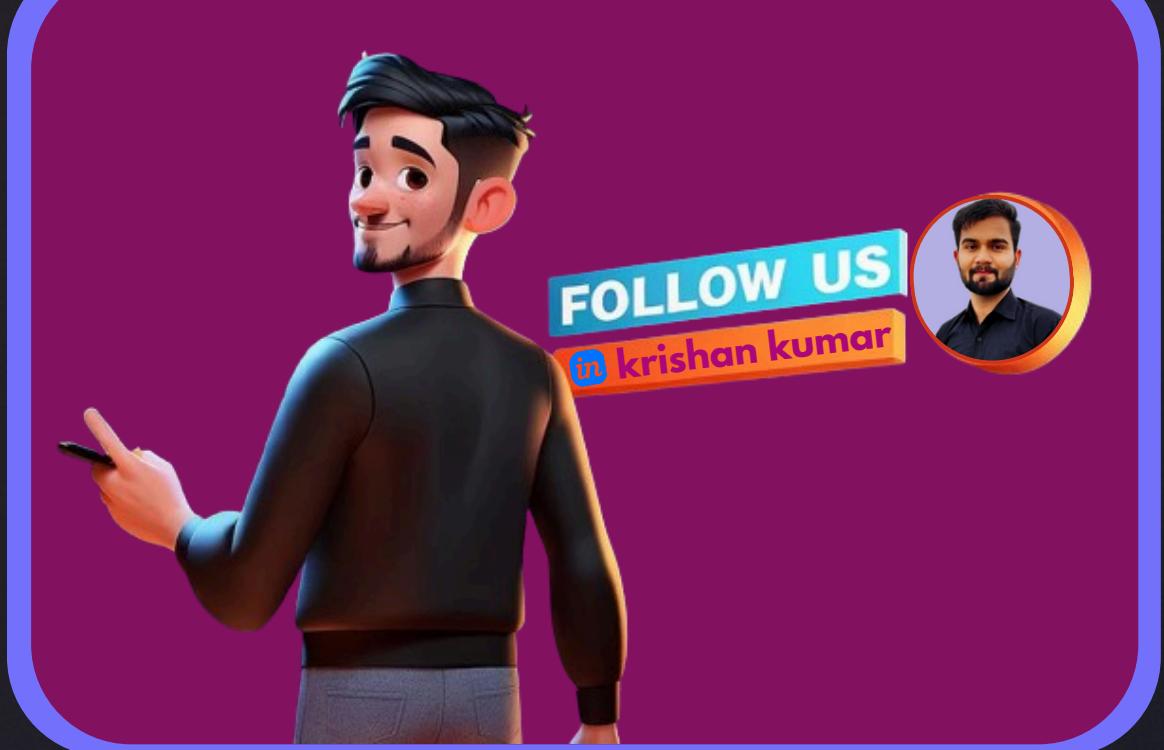


## Summary:

- **The CASE statement adds conditional logic to SQL.**
- **It checks conditions in order and returns the matching result.**
- **If no conditions are met, it returns a default value or NULL.**



wanna see some  
Counter Questions



# **1. Can we use CASE in the WHERE clause?**

→ **Yes, you can use a CASE statement in the WHERE clause to add conditional logic to filter rows.**

**It allows you to perform more complex filtering based on conditions.**



## **2. Can you nest CASE statements in SQL?**

→ Yes, you can nest CASE statements within other CASE statements for more complex logic.

However, it's important to manage readability when nesting multiple conditions.



*Next Question*

### **3. What is the difference between CASE and IF in SQL?**

→ **CASE is more versatile than IF in SQL. IF is mostly used in procedural SQL (like stored procedures),**

**while CASE is used within queries to add conditional logic directly in SELECT, WHERE, and other clauses.**



*Next Question*

## 4. Can a CASE statement return multiple columns?

→ **No, a CASE statement can only return a single value (or column).**

**However, you can write multiple CASE statements within a query to create different conditional columns.**



## 5. How does CASE handle NULL values?

→ In a CASE statement, NULL can be part of the conditions,

and you can use it to check for NULL values specifically.

If none of the conditions are met and there's no ELSE clause, the result will be NULL.



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