

Part - 6

# Data Retrieval

## Interview

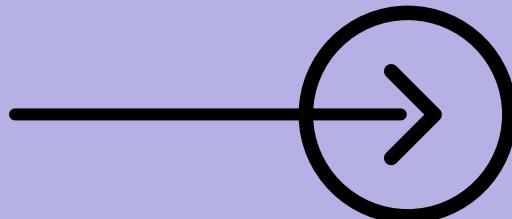
## Questions and Answers...!



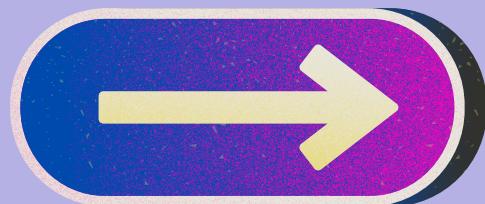
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# **Difference and Similarities between General Case Statement and Case Expression in Sql.?**



## **What is the similarity between the General CASE Statement and the CASE Expression in SQL?**

→ Both are used to add conditional logic in SQL. They evaluate conditions and return results based on those conditions.

In essence, they help categorize data or derive new data columns based on the conditions.



**What is the primary difference in between themn ?**

# The primary difference

→ **General CASE Statement:** Does not return a value itself but controls the execution of other SQL statements or code blocks.

**CASE Expression:** Returns a single value and is used within a single SQL statement to evaluate a hardcoded expression.



What is the syntax difference between them ?

# Syntax difference:

## → General CASE Statement



CASE

WHEN condition1 THEN result1

WHEN condition2 THEN result2

...

ELSE default\_result

END

## → CASE Expression



CASE Expression

WHEN value1 THEN result1

WHEN value2 THEN result2

WHEN value3 THEN result3

...

ELSE other\_result

END ;

Can you give an example of a General CASE Statement?

# Example of a General CASE Statement:



```
SELECT customer_id, amount,  
CASE  
    WHEN amount > 100 THEN 'Expensive product'  
    WHEN amount = 100 THEN 'Moderate product'  
    ELSE 'Inexpensive product'  
END AS ProductStatus  
FROM payment;
```

- **This categorizes product prices based on conditions.**

Can you give an example of a CASE Expression?

# Example of a CASE Expression:



```
SELECT customer_id,  
  
CASE amount  
  
    WHEN 500 THEN 'Prime Customer'  
  
    WHEN 100 THEN 'Plus Customer'  
  
    ELSE 'Regular Customer'  
  
END AS CustomerStatus  
  
FROM payment;
```

**This categorizes customers based on the specific value of the amount field.**

**How does the General CASE Statement process conditions?**

# **General CASE Statement process conditions**

- **The General CASE Statement evaluates each condition sequentially, and once a condition is met,**
- it returns the corresponding result and stops evaluating further conditions.**



**How does the CASE Expression differ in its approach?**

# **CASE Expression differ in its approach:**

→ **The CASE Expression works by directly comparing a value,**

**(like a specific column or expression)**

**with a series of hardcoded values and returning the result associated with the first match.**





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# **1. Can CASE Expressions be nested inside each other, and what would be a real-world use case for doing so?**

- **Yes, CASE Expressions can be nested. A real-world use case would be handling multiple complex conditions, such as assigning grades based on different criteria like attendance and scores.**



## **2. What happens if a CASE Statement or CASE Expression does not have an ELSE clause, and none of the conditions are met?**

→ if there is no ELSE clause and no condition is met,

**The result will be NULL.**



*Next Question*

### **3. Is there a performance difference between using a General CASE Statement versus a CASE Expression in large datasets?**

→ **There is generally no significant performance difference.**

**Both work similarly, but CASE Expressions are typically used within a SELECT statement for returning values.**



*Next Question*

## **4. How can the CASE Statement be used in conjunction with the GROUP BY clause to categorize grouped data?**

→ You can use the CASE Statement to categorize grouped data,

like grouping sales data by region and using CASE to label regions as "High" or "Low" performing based on sales.



## **5. In what scenarios would you prefer to use a General CASE Statement over a CASE Expression, or vice versa?**

- Use a General CASE Statement when controlling multiple SQL operations, and a CASE Expression when you only need to return a value within a query.



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