

ADVANCED SQL CASE EXERCISES WITH ANSWERS

advanced sql case exercises with answers are essential for developers and database administrators aiming to hone their skills in writing complex SQL queries. Mastering these exercises helps improve problem-solving capabilities, understanding of conditional logic, and the ability to manipulate and analyze data efficiently. Whether you're preparing for a technical interview, enhancing your database management skills, or working on complex data analysis tasks, tackling advanced SQL case exercises is a vital step. This comprehensive guide explores a variety of challenging SQL case exercises, complete with detailed answers, to elevate your understanding and proficiency in SQL.

Understanding the SQL CASE Statement

Before diving into advanced exercises, it's crucial to understand the foundational concept of the SQL CASE statement. The CASE statement is a powerful conditional

expression that allows for if-else logic within SQL queries. It enables the transformation of data based on specific conditions, making queries more dynamic and insightful. Key Points about CASE Statement: - It evaluates a set of conditions and returns a result based on the first true condition. - It can be used in SELECT, WHERE, ORDER BY, and other clauses. - Supports both simple and searched CASE expressions. Basic Syntax: CASE WHEN condition1 THEN result1 WHEN condition2 THEN result2 ... ELSE default_result END

Advanced SQL Case Exercises with Answers

This section presents a series of challenging SQL case exercises designed to test and expand your skills. Each exercise includes a detailed explanation and the final SQL query.

Exercise 1: Categorize Employees Based on Salary Ranges

Problem Statement: Given an `employees` table with columns `employee\_id`, `name`, and `salary`, write a query to categorize employees into salary brackets: 'Low', 'Medium', 'High', and 'Very High'. Assume: - Salary < 50,000 → 'Low' - 50,000 ≤ Salary < 100,000 → 'Medium' - 100,000 ≤ Salary < 150,000 → 'High' - Salary ≥ 150,000 →

'Very High' Solution: `SELECT employee_id, name, salary, CASE WHEN salary < 50000 THEN 'Low' WHEN salary >= 50000 AND salary < 100000 THEN 'Medium' WHEN salary >= 100000 AND salary < 150000 THEN 'High' ELSE 'Very High' END AS salary_category FROM employees;`

Explanation: - The CASE statement evaluates salary ranges and assigns categories accordingly. - The `ELSE` clause handles salaries above or equal to 150,000.

Exercise 2: Assign Grades Based on Scores

Problem Statement: In a `student\_scores` table with columns `student\_id`, `student\_name`, and `score`, assign performance grades: - $\text{Score} \geq 90 \rightarrow \text{'A'}$ - $80 \leq \text{Score} < 90 \rightarrow \text{'B'}$ - $70 \leq \text{Score} < 80 \rightarrow \text{'C'}$ - $60 \leq \text{Score} < 70 \rightarrow \text{'D'}$ - $\text{Score} < 60 \rightarrow \text{'F'}$ Solution: `SELECT student_id, student_name, score, CASE WHEN score >= 90 THEN 'A' WHEN score >= 80 AND score < 90 THEN 'B' WHEN score >= 70 AND score < 80 THEN 'C' WHEN score >= 60 AND score < 70 THEN 'D' ELSE 'F' END AS grade FROM student_scores;` Explanation: - The conditional logic maps scores to grades using the CASE statement. - The `ELSE` clause covers scores below 60.

Exercise 3: Dynamic Sorting of Orders

Based on Status

Problem Statement: Suppose you have an `orders` table with columns `order\_id`, `customer\_id`, `order\_date`, and `status`. You want to prioritize orders in the following order: 'Pending', 'Processing', 'Shipped', 'Cancelled'. Write a query to list all orders ordered by their priority. Solution:
SELECT order_id, customer_id, order_date, status FROM orders ORDER BY CASE status WHEN 'Pending' THEN 1 WHEN 'Processing' THEN 2 WHEN 'Shipped' THEN 3 WHEN 'Cancelled' THEN 4 ELSE 5 END; Explanation: - The CASE statement assigns a numeric priority to each status. - Orders are sorted based on these priorities.

Exercise 4: Calculate Discounted Price Based on Quantity

Problem Statement: In a `sales` table with columns `product\_id`, `quantity`, and `unit\_price`, calculate the total price after applying discounts: - For quantity ≥ 100 , apply a 20% discount. - For quantity between 50 and 99, apply a 10% discount. - For quantity less than 50, no discount. Solution:
SELECT product_id, quantity, unit_price, CASE WHEN quantity ≥ 100 THEN unit_price 0.8 WHEN quantity BETWEEN 50 AND 99 THEN unit_price 0.9 ELSE unit_price END AS discounted_price, (CASE WHEN quantity ≥ 100 THEN unit_price 0.8 WHEN quantity BETWEEN 50 AND 99 THEN unit_price 0.9 ELSE unit_price END) quantity AS total_price FROM sales;

Explanation: - The CASE statement determines the discounted unit price. - The total price multiplies the discounted price by quantity.

Exercise 5: Identify Customers with Multiple Orders

Problem Statement: Using a `customers` table with `customer\_id` and `name`, and an `orders` table with `order\_id` and `customer\_id`, find customers who have placed more than one order. Solution: `SELECT c.customer_id, c.name, COUNT(o.order_id) AS total_orders FROM customers c JOIN orders o ON c.customer_id = o.customer_id GROUP BY c.customer_id, c.name HAVING COUNT(o.order_id) > 1`; Explanation: - Join customers and orders on `customer\_id`. - Use `GROUP BY` to aggregate orders per customer. - The `HAVING` clause filters customers with more than one order.

Advanced Tips for Using SQL CASE Statements

To maximize the efficiency and readability of your SQL queries involving CASE statements, consider the following tips: - Use WHEN clauses carefully: Order your conditions from most specific to most general to prevent unnecessary evaluations. - Combine with other functions: Use CASE with aggregate functions, window functions, and

subqueries for complex scenarios. - Maintain readability: For complex conditions, break down logic into smaller parts or use CTEs (Common Table Expressions). - Optimize performance: Avoid overly complex CASE statements in large datasets; consider indexing and query optimization techniques.

Conclusion

Mastering advanced SQL case exercises with answers is vital for anyone looking to excel in data analysis, database management, or technical interviews. The ability to handle complex conditional logic within SQL queries enhances your capacity to derive meaningful insights from data, automate decision-making processes, and write efficient, readable code. Regular practice with exercises like categorizing data, assigning dynamic labels, prioritizing records, and calculating conditional discounts will solidify your understanding and improve your problem-solving skills. Remember, the key to proficiency is consistent practice and understanding the underlying principles of the CASE statement and its versatile applications in real-world scenarios. Meta Description: Discover comprehensive advanced SQL case exercises with answers to sharpen your SQL skills. Learn how to use the CASE statement effectively in complex data scenarios with detailed examples and explanations.

Advanced SQL Case Exercises with Answers: A

Comprehensive Guide for Data Enthusiasts SQL (Structured Query Language) is the backbone of modern data management, enabling analysts and developers to query, manipulate, and analyze vast amounts of information efficiently. While foundational SQL skills are essential, mastering advanced techniques—particularly the strategic use of the `CASE` statement—is crucial for tackling complex data scenarios. In this guide, we explore advanced SQL case exercises with answers, designed to elevate your querying skills and prepare you for real-world data challenges. Understanding the Power of the SQL CASE Statement Before diving into exercises, it's essential to understand the core purpose of the `CASE` statement. It functions as a conditional expression, allowing you to perform if-then-else logic within your SQL queries. This capability makes it invaluable for:

- Categorizing data dynamically
- Performing conditional calculations
- Creating custom labels or groups based on data conditions

Advanced exercises often combine `CASE` with other SQL features like joins, aggregations, window functions, and nested queries, making mastery of this feature a significant asset.

Exercise 1: Categorize Customers Based on Purchase Frequency

Problem Statement: Given a `customers` table with columns `customer\_id` and `purchase\_date`, write a query to categorize customers into:

- "Frequent" if they have made more than 10 purchases
- "Occasional" if they have made between 5 and 10 purchases
- "Rare" if they have made fewer than 5

purchases Solution: SELECT customer_id, COUNT() AS purchase_count, CASE WHEN COUNT() > 10 THEN 'Frequent' WHEN COUNT() BETWEEN 5 AND 10 THEN 'Occasional' ELSE 'Rare' END AS customer_category FROM purchases GROUP BY customer_id; Explanation: - The query counts the number of purchases per customer. - Uses the `CASE` statement to assign categories based on the purchase count. - Demonstrates grouping and conditional classification.

Exercise 2: Assign Discount Tiers Based on Total Spend Problem Statement: Suppose you have a `sales` table with `customer\_id` and `amount`. Create a report that assigns a discount tier: - "Gold" for total spend over \$10,000 - "Silver" for total spend between \$5,000 and \$10,000 - "Bronze" for total spend less than \$5,000 Solution: SELECT customer_id, SUM(amount) AS total_spend, CASE WHEN SUM(amount) > 10000 THEN 'Gold' WHEN SUM(amount) BETWEEN 5000 AND 10000 THEN 'Silver' ELSE 'Bronze' END AS discount_tier FROM sales GROUP BY customer_id; Explanation: - Aggregates total spend per customer. - Uses `CASE` for tier assignment based on total spend. - Highlights how to combine aggregation with conditional logic.

Exercise 3: Flagging Data Quality Issues Problem Statement: In a `transactions` table with `transaction\_id`, `transaction\_date`, and `amount`, identify transactions where the `amount` is negative or zero, indicating potential data issues. Solution: SELECT transaction_id, transaction_date, amount, CASE WHEN amount <= 0

THEN 'Invalid' ELSE 'Valid' END AS data_quality_flag FROM transactions; Explanation: - Adds a flag column based on simple conditions. - A straightforward example of data validation within a query.

Exercise 4: Dynamic Column Labels Based on Multiple Conditions Problem Statement: Create a report from an `employee\_sales` table with `employee\_id`, `region`, `sales\_amount`. Assign a performance label: - "Top Performer" if sales are above \$50,000 - "Average Performer" if sales are between \$20,000 and \$50,000 - "Needs Improvement" if sales are below \$20,000 Solution: SELECT employee_id, region, sales_amount, CASE WHEN sales_amount > 50000 THEN 'Top Performer' WHEN sales_amount BETWEEN 20000 AND 50000 THEN 'Average Performer' ELSE 'Needs Improvement' END AS performance_label FROM employee_sales; Explanation: - Demonstrates multiple conditions in `CASE`. - Useful for creating performance dashboards.

Exercise 5: Nested CASE Statements for Complex Logic Problem Statement: From a `products` table with `product\_id`, `category`, and `price`, assign a price tier: - "Premium" for prices above \$1000 - "Mid-range" for prices between \$500 and \$1000 - "Budget" for prices below \$500 Further, within the "Budget" category, identify if the product is a "Clearance" item based on a boolean `is\_clearance`. Solution: SELECT product_id, category, price, CASE WHEN price > 1000 THEN 'Premium' WHEN price BETWEEN 500 AND 1000 THEN 'Mid-range' WHEN price < 500 THEN CASE WHEN is_clearance = TRUE

THEN 'Budget - Clearance' ELSE 'Budget' END ELSE
'Unknown' END AS price_tier FROM products; Explanation:

- Uses nested `CASE` statements for multi-layered classification. - Adds complexity suitable for advanced querying scenarios. Exercise 6: Using CASE with Window Functions for Running Totals Problem Statement:

Calculate a running total of sales per customer, and flag the first sale as "First Purchase" and subsequent sales as

"Repeat Purchase." Solution: SELECT customer_id, transaction_date, amount, CASE WHEN ROW_NUMBER() OVER (PARTITION BY customer_id ORDER BY transaction_date) = 1 THEN 'First Purchase' ELSE 'Repeat Purchase' END AS purchase_type, SUM(amount) OVER (PARTITION BY customer_id ORDER BY transaction_date ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW) AS running_total FROM sales; Explanation: -

Combines `CASE` with window functions

(`ROW\_NUMBER()` and `SUM()`). - Demonstrates advanced analytical queries for customer behavior analysis. Exercise 7: Dynamic Labeling in Aggregated

Reports Problem Statement: From an `orders` table with `order\_id`, `order\_date`, and `status` (values: 'shipped', 'pending', 'cancelled'), generate a report showing each order with a label indicating order status and whether it's overdue (assuming a 7-day window from order date).

Solution: SELECT order_id, order_date, status, CASE WHEN status = 'shipped' THEN 'Completed' WHEN status = 'pending' THEN 'In Progress' WHEN status = 'cancelled'

```
THEN 'Cancelled' ELSE 'Unknown' END AS status_label,  
CASE WHEN status = 'pending' AND order_date <=  
DATE_SUB(CURRENT_DATE, INTERVAL 7 DAY) THEN  
'Overdue' ELSE 'On Track' END AS overdue_flag FROM  
orders;
```

Explanation:

- Uses multiple `CASE` statements for nuanced reporting.
- Combines status and timing conditions for comprehensive insights.

Best Practices for Using SQL CASE Statements in Advanced Queries To maximize the effectiveness of your `CASE` statements in complex queries:

- Keep conditions clear and ordered: The order of `WHEN` clauses affects logic; place the most specific conditions first.
- Use nested `CASE` judiciously: For multi-layered logic, nested `CASE` statements can improve readability but avoid excessive nesting.
- Combine with window functions: Leverage `CASE` within window functions for advanced analytics like running totals, rankings, or cumulative metrics.
- Validate conditions: Always test your conditions thoroughly to prevent logical errors.
- Optimize for performance: Complex `CASE` expressions can impact query speed; consider indexing and query rewriting for efficiency.

Conclusion Mastering advanced SQL case exercises with answers unlocks powerful data manipulation capabilities, enabling you to craft sophisticated queries that answer complex business questions. From categorizing data dynamically to performing multi-condition logic with nested `CASE` statements, these exercises demonstrate the versatility and depth of the SQL `CASE` statement.

Whether you're building detailed reports, performing data validation, or conducting advanced analytics, a solid grasp of these techniques elevates your SQL proficiency to professional levels. Keep practicing these patterns, adapt them to your specific datasets, and you'll be well-equipped to handle the most demanding data scenarios with confidence.

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Questions & Answers About advanced sql case exercises with answers

N o	Question	Answer
1	How can you use the SQL CASE statement to categorize data into multiple groups based on value ranges?	You can use the CASE statement with WHEN clauses specifying the range conditions. For example: SELECT id, value, CASE WHEN value BETWEEN 0 AND 50 THEN 'Low' WHEN value BETWEEN 51 AND 100 THEN 'Medium' ELSE 'High' END AS category FROM table_name; This assigns categories based on the value ranges.

2	How do you implement a conditional update using the SQL CASE statement?	You can incorporate CASE within an UPDATE statement to conditionally modify data. For example: <pre>UPDATE employees SET salary = CASE WHEN performance_score >= 90 THEN salary 1.10 WHEN performance_score >= 75 THEN salary 1.05 ELSE salary END;</pre> This updates salaries based on performance scores.
3	Can you combine multiple conditions inside a CASE statement, and how is it structured?	Yes, you can combine multiple conditions using logical operators like AND and OR within WHEN clauses. Example: <pre>SELECT order_id, amount, CASE WHEN status = 'Pending' AND delivery_date IS NULL THEN 'Awaiting Shipment' WHEN status = 'Shipped' OR delivery_date IS NOT NULL THEN 'In Transit' ELSE 'Unknown' END AS order_status FROM orders;</pre> This allows complex conditional categorization.

4	What is an advanced use case of the SQL CASE statement involving nested queries or aggregations?	A common advanced use is to embed aggregate functions within CASE statements to categorize data based on computed metrics. For example: <pre>SELECT department, CASE WHEN SUM(salary) > 1_000_000 THEN 'High Budget' WHEN AVG(salary) > 70000 THEN 'Moderate Budget' ELSE 'Low Budget' END AS budget_category FROM employees GROUP BY department;</pre> This classifies departments based on aggregate salary data.
5	How can the SQL CASE statement be used to dynamically generate labels or statuses based on multiple columns?	You can write complex CASE expressions that evaluate multiple columns to produce dynamic labels. For instance: <pre>SELECT product_id, stock_quantity, sales, CASE WHEN stock_quantity < 50 AND sales > 1000 THEN 'Restock Soon' WHEN stock_quantity >= 50 AND sales <= 1000 THEN 'Stable' WHEN stock_quantity = 0 THEN 'Out of Stock' ELSE 'Check Inventory' END AS stock_status FROM products;</pre> This provides real-time status based on multiple data points.

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