

Exercise 3: SQL CASE Statements

1. SELECT product-name,
price

CASE WHEN price > 1000 THEN 'Expensive'
WHEN price BETWEEN 100 AND 1000 THEN 'Mid-range'
WHEN price < 100 THEN 'Budget'

FROM products

END AS price-category
FROM products;

product-name	price	price-category
laptop	1200	Expensive
phone	800	Mid-range
keyboard	45	Budget
Monitor	300	Mid-range
Mouse	25	Budget

2. SELECT customer-name,
amount

CASE WHEN amount ≥ 1000 THEN 'High-Value'
WHEN amount BETWEEN 500 AND 499.99 THEN 'Medium-value'
WHEN amount < 500 THEN 'Low-value'

END AS order-value-category

FROM orders;

customer-name	amount	order-value-category
Alice	150.00	Low-value
Bob	560.00	Medium-value
Charlie	999.99	Medium-value
Diana	45.50	Low-value
Ethan	1200.00	High-value

3. SELECT emp-name,
department,
salary

CASE WHEN salary > 8000 AND department = 'IT' THEN 'Senior-IT'
WHEN salary > 6500 AND department = 'HR' THEN 'Experienced HR'
ELSE 'Staff'

END AS position-level

FROM employees;

emp-name	department	salary	position-level
John	IT	8500	Senior-IT
Sara	HR	6000	Experienced HR
Mark	IT	7500	Staff
Lucy	Finance	4500	Staff
Tom	HR	5500	Staff

4. SELECT Student-name,
Score,
CASE WHEN Score ≥ 90 THEN 'A'
WHEN Score BETWEEN 80 AND 89 THEN 'B'
WHEN Score BETWEEN 70 AND 79 THEN 'C'
WHEN Score BETWEEN 60 AND 69 THEN 'D'
WHEN Score < 60 THEN 'F'

END AS grade

FROM Students;

Student-name	score	grade
Anna	92	A
Ben	76	C
Cara	59	F
David	83	B
Ella	68	D

5. SELECT delivery-id,
delivery-time-minutes,
CASE WHEN delivery-time-minutes ≤ 30 THEN 'Fast'
WHEN delivery-time-minutes ≥ 31 AND ≤ 60 THEN 'ON TIME'
WHEN delivery-time-minutes $= 60$ THEN 'Late'

END AS performance

FROM deliveries;

delivery-id	delivery-time-minutes	performance
1	45	On-time
2	80	Late
3	30	Fast
4	65	Late
5	100	Late

6. SELECT issue-type,
priority,
CASE WHEN priority $= 3$ THEN 'High'
WHEN priority $= 2$ THEN 'Medium'
ELSE 'Low'
END AS priority-label
FROM tickets

issue-type	priority	priority-label
login-issue	1	Low
Server-down	3	High
Slow-system	2	Medium
Email-error	2	Medium
Password-reset	1	Low

7. SELECT ~~days-present~~, ~~total-days~~, (days-present * 100 / total-days) AS attendance-percentage,
CASE WHEN (days-present / total-days * 100) ≥ 90 THEN 'Excellent'
WHEN (days-present / total-days * 100) BETWEEN 75 AND 89 THEN 'Good'
WHEN (days-present / total-days * 100) < 75 THEN 'Needs-Improvement'
END AS attendance-percentage status
FROM attendance;

student-id	attendance-percentage	attendance-status
1	90.0	Excellent
2	60.0	Need-Improvement
3	96.0	Excellent
4	50.0	Need-Improvement
5	100.0	Excellent

8. SELECT *
CASE WHEN stock-qty = 0 THEN 'Out-of-Stock'
WHEN stock-qty BETWEEN 1 AND 5 THEN 'Low-Stock'
WHEN stock-qty = 5 THEN 'In-Stock'
END AS class-size-category
FROM product-inventory;

product-id	stock-qty	stock-status
1	5	In-Stock
2	0	Out-of-Stock
3	25	In-Stock
4	10	In-Stock
5	3	Low-Stock

9. SELECT subject,
enrolled-students,
CASE WHEN enrolled-students ≥ 25 THEN 'Large'
WHEN enrolled-students BETWEEN 10 AND 25 THEN 'Medium'
WHEN enrolled-students < 10 THEN 'Small'
END AS class-size-category
FROM classes;

subject	enrolled-students	class-size-category
Math	30	Large
English	25	Large
Science	15	Medium
Art	5	Small
History	20	Medium

10. SELECT payment-id,
payment-method,
amount,
CASE WHEN payment-method = 'cash' AND amount ≥ 200 THEN 'Eligible-for-Discount'
ELSE 'Not-Eligible'
END AS discount-eligibility
FROM payments;

payment-id	payment-method	amount	discount-eligibility
1	Card	50.00	Not-Eligible
2	Cash	200.00	Eligible for Discount
3	Card	100.00	Not-Eligible
4	Paypal	75.00	Not-Eligible
5	Cash	300.00	Eligible for discount