

Exercise 3 - SQL Fundamentals (SQL Case Statement)

1. SELECT product-name, price

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

END AS price-category

FROM products;

product-name	price	price-category
Laptop	1200	Expensive
Phone	300	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 999.99 THEN 'Medium Val'
ELSE 'Low Val'

END AS order-value-category

FROM orders;

customer-name	amount	order-value-category
Alice	150	Low
Bob	560	Medium
Charlie	999.99	Medium
Diana	450	Low
Ethan	1200	High

3. SELECT emp-name, department, salary

CASE WHEN department = 'IT' AND salary > 80000 THEN 'Senior IT'
WHEN department = 'HR' AND salary > 50000 THEN 'Experienced HR'
ELSE 'Staff'

END AS position-level
FROM employees;

emp-name	department	salary	position-level
John	IT	85000	Senior IT
Sara	HR	60000	Experienced HR
Mark	IT	75000	Staff
Lucy	Finance	65000	Staff
Tom	HR	55000	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'

ELSE 'F'

END AS grade

FROM students;

student-name	score	grade
Mina	92	A
Ben	76	C
Cora	59	F
David	83	B
Eila	68	D

5. SELECT delivery-id, delivery-time-minutes

CASE WHEN delivery-time-minutes <= 30 THEN 'Fast'

WHEN delivery-time-minutes BETWEEN 31 AND 60 THEN 'On Time'

ELSE 'Slow'

END AS performance

From deliveries	delivery-id	student-name	delivery-time-minutes	Performance
	1		45	On Time
	2		80	Slow
	3		30	Fast
	4		65	Slow
	5		100	Slow

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
Grid error	2	Medium
Network issue	1	Low

7. SELECT student_id, attendance_percentage
CASE WHEN days_preset/total_days >= 90 THEN 'Excellent'
WHEN days_preset/total_days BETWEEN 75 AND
89 THEN 'Good',
ELSE 'Needs Improvement'

END AS attendance_status;

From attendance

student_id	attendance_percentage	attendance_Status
1	90	Excellent
2	60	Needs Improvement
3	95	Excellent
4	50	Needs Improvement
5	100	Excellent

8. SELECT product_id, stock_qty
CASE WHEN stock_qty = 0 THEN 'Out of Stock'
WHEN stock_qty Between 1 AND 5 THEN 'Low Stock'
ELSE 'In Stock'
END AS 'Stock_Status'

From products_mentry;

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'
ELSE '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' THEN AND amount >= 200
THEN 'Eligible for Discount'

ELSE 'Not Eligible'

END AS discount_eligibility

From payments;

payment_id	payment_method	amount	discount_eligibility
1	Cash	50	Not Eligible
2	Cash	200	Eligible for Discount
3	Cash	150	Not Eligible
4	PayPal	75	Not Eligible
5	Cash	300	Eligible for Discount