

SQL

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'
ELSE 'Budget'
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 999.99 THEN 'Medium Value'
ELSE '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 department = 'IT' AND salary > 80000 THEN 'Senior IT'
WHEN department = 'HR' AND salary > 55000 THEN 'Experienced HR'
ELSE 'Staff'
END AS position_level
FROM employees;

①

Emp - name	department	salary	position level
John	IT	85000	Senior IT
Sara	HR	60000	Experienced HR
Mark	IT	75000	Staff
Lucy	Finance	95000	Staff
Tom	HR	55000	Staff

④ SELECT student - name,
score

CASE WHEN score >= 90 THEN 'A'
WHEN score BETWEEN 80 AND 90 THEN 'B'
WHEN score BETWEEN 70 AND 80 THEN 'C'
WHEN score BETWEEN 60 AND 70 THEN 'D'

ELSE 'F'
END AS grade
FROM students;

student - name	score	grade
Anna	92	A
Ben	76	C
Cara	59	F
David	83	B
Gilia	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 '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'
WHEN priority = 1 THEN 'Low'

END AS priority - label
FROM tickets;

⑦

Issue type	Priority	Priority level
Login issue	1	Low
Server down	3	High
Slow system	2	Medium
Email error	2	Medium
Password reset	1	Low

(7) SELECT Student_id
 $(\text{days-present} * 100 / \text{total-days})$ AS attendance-percentage

CASE WHEN $(\text{days-present} * 100 / \text{total days}) \geq 90$ THEN 'Excellent'

WHEN $(\text{days-present} * 100 / \text{total days})$ BETWEEN 75 AND 89 THEN 'Good'

ELSE 'Needs Improvement'

END AS attendance_Status

FROM attendance;

Student_id	Attendance percentage	Attendance_Status
1	90.0	Excellent
2	60.0	Needs Improvement
3	96.0	Excellent
4	50.0	Needs Improvement
5	100.0	Excellent

(8) SELECT product_id,
 stock-qty ,

CASE WHEN stock_qty = 0 THEN 'Out of Stock'

WHEN stock_qty BETWEEN 1 AND 4 THEN 'Low Stock'

ELSE 'In Stock'

END AS stock_Status

FROM products_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

(3)

9. SELECT subject
enrolled-students

CASE WHEN enrolled-students >= 25 THEN 'Large'
WHEN enrolled-students BETWEEN 10 AND 24 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' AND amount >= 200 THEN 'Eligible
'For-Discant'
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	Not For Discant
3	Card	150.00	Not Eligible
4	PayPal	75.00	Not Eligible
5	Cash	300.00	Eligible For Discant