

## Exercise 3: SQL CASE Statement

### Question 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	1200.00	Expensive
Phone	800.00	Mid-range
Keyboard	45.00	Budget
Monitor	300.00	Mid-range
Mouse	25.00	Budget

### Question 2

```
SELECT emp_name,  
       department,  
       salary  
     CASE
```

### Question 2

```
SELECT customer_name,  
       amount  
     CASE
```

WHEN Orders ≥ 1000 THEN 'High Value'

WHEN Orders 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

### Question 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;

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

#### Question 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
Anna	92	A
Ben	76	C
Cara	59	F
David	83	B
Ella	68	D

#### Question 5

SELECT delivery\_id,  
delivery\_time\_minutes,

CASE

WHEN delivery\_time\_minutes < 30 mins THEN 'FAST'

WHEN delivery\_time\_minutes BETWEEN 31 AND 60 min THEN  
'ON TIME'

ELSE 'Late'

END AS performance

FROM deliveries;

<u>delivery_id</u>	<u>delivery_time_minutes</u>	<u>performance</u>
1	45	On time
2	80	Late
3	30	fast
4	65	Late
5	100	Late

### Question 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 ticket;

<u>issue-type</u>	<u>priority</u>	<u>priority-label</u>
Long issue	1	LOW
Server down	3	HIGH
Slow system	2	MEDIUM
Email error	2	MEDIUM
Password reset	1	LOW

### Question 7

SELECT student\_id,  
attendance-percentage

### Question 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 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

### Question 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_student	class_size_category
Math	30	Large
English	25	Large
Science	15	Medium
Art	5	Small
History	20	Medium

### Question 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	150.00	NOT Eligible
4	Paypal	75.00	NOT Eligible
5	Cash	300.00	Eligible for Discount