

# EXERCISE 3 : SQL CASE STATEMENTS

## Question 1

Classify each product by price

- Expensive IF Price  $> 1000$
- Mid-Range IF Price between 100  $\leq$  1000
- Budget IF Price  $< 100$

```
SELECT Product_name, Price,  
CASE  
    WHEN Price  $> 1000$  THEN 'Expensive'  
    WHEN Price BETWEEN 100 AND 1000  
    THEN 'Mid-Range'  
    WHEN Price  $< 100$  THEN 'Budget'  
END AS Price_Category  
FROM Sales_Publics.Price;
```

Product_Name	Price	Price-Category
Laptop	1200	Expensive
Phone	800	Mid-Range
Keyboard	45	Budget
Monitor	300	Mid-Range
Mouse	25	Budget

## Question 2

Label each Order

High value for Order  $\geq 1000$

Medium Value for 500  $\leq$  999

Low Value for Order  $< 500$

```

SELECT Customer_name, Amount,
CASE
    WHEN Amount >= 1000 THEN 'High-Value'
    WHEN Amount Between 500 AND 999,99
    THEN 'Medium-range'
    ELSE '<500-Low-range'
END AS Order value Category
FROM ORDER;

```

Customer Name	Amount	Order Value Category
Alice	150	Low Value
Bob	560	Medium Value
Charlie	999,99	Medium Value
Diana	45,50	Low Value
Ethan	1200	High Value

Question 3

```

SELECT Emp-name, Department,
Salary,
CASE
    WHEN Department = 'IT'
    AND Salary > 80 000 THEN 'Senior IT'
    WHEN Department = 'HR'
    AND Salary > 55 000 THEN 'Experienced'
    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 14

```

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	88	D

### Question 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'
    WHEN Delivery-Time-Minutes = 60 THEN 'Late'
END AS Performance
FROM Delivery;
```

Delivery-id	delivery-Time-Minutes	Performance
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 Tickets;
```

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

### Question 7

```

SELECT Student_ID, (Days_Present / Total_days)
* 100 AS Attendance_Percentage,
CASE
    WHEN Attendance_Percentage >= 90
    THEN 'Excellent'
    WHEN Attendance_Percentage Between 75
    AND 89 THEN 'Good'
    WHEN Attendance_Percentage < 75 THEN
    'Needs_Improvement'
END AS Attendance_Status
FROM Attendance;

```

Student_ID	Attendance_Percentage	Attendance_Status
1	90 %	Excellent
2	60 %	Needs Improvement
3	96 %	Excellent
4	50 %	Needs Improvement
5	100 %	Excellent

### 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 '>5_In_Stock'  
END AS Stock_Status  
FROM Product_Inventory
```

<del>Product_id</del>	<del>Stock_Qty</del>	<del>Product Inventory</del>
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'  
    WHEN Enrolled_Students < 10 THEN 'Small'  
END AS Class_Size_Category  
FROM Classes;
```

Subject	Enrolled-Students	Class-Size-Category
Maths	30	Large
English	25	Large
Science	15	Medium
Art	5	Small
History	20	Medium

Question 10

SELECT Payment\_id, Payment\_method,  
Amount,

CASE.

WHEN Amount  $\geq$  200 THEN 'Eligible'

ELSE 'Not-Eligible'

END AS Discount\_Eligibility

FROM Payments

WHERE Payment\_Method = 'CASH';

Payment_id	Payment method	Amount	Discount_Eligibility
1	CASH	50	Not Eligible
2	CASH	200	Eligible
3	CASH	150	Not_Eligible
5	CASH	300	Eligible