

## EXERCISE 3 : SQL CASE STATEMENTS

### Question 1

Classify each product by price

- Expensive IF Price > 1000
- Mid-Range IF Price between 100 & 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\_Publico\_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 & 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\_Catagory

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 > 80000 THEN 'SeniorIT'

WHEN Department = 'HR'

AND Salary > 55000 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 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	88	D

## Question 5

SELECT Delivery-id, delivery-Time-Minutes

CASE

WHEN Delivery-Time Minutes  $\leq 30$  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-babel

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 'In\_Stock'

END AS Stock\_Status

FROM Product\_Inventory

Product_id, Stock_Qty	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  $\geq 25$  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