

Exercise 3

Q1)

SELECT Product-name, Price
Case

WHEN WHEN Price > 1000 THEN 'Expensive'

WHEN Price Between 100 AND 1000 THEN 'Mid-range'

WHEN ELSE

WHEN Price < 100 THEN 'Budget'

END AS Price-category;

~~Product-Name~~ Price
FROM Products;

Product-Name	Price	Price-Category
Laptop	1200	Expensive
Phone	800	Mid-range
Keyboard	45	Budget
Monitor	300	Mid-range
Mouse	25	Budget

Q2)

SELECT Customer-name, amount
Case

WHEN amount ≥ 1000 THEN 'High value'

WHEN amount between 500 AND 999,99 THEN 'medium value'

WHEN amount < 500 THEN '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

Q3)

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
employees

FROM

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

Q4

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

Students-name	Score	Grade
ANNA	92	A
BEN	76	C
CARA	54	F
DAVID	83	B
ELLA	68	D

Q5

SELECT delivery-ID, delivery-time-minutes
CASE
WHEN delivery-time-minutes \leq THEN 'Fast'
WHEN delivery-time-minutes between 31 AND 60 THEN
(on time)
WHEN delivery-time-minutes \geq 60 THEN '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

Q6

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-level
Login issue	1	Low
Server down	3	High
Slow System	2	Medium
Email error	2	Medium
Password reset	1	Low

Q7

SELECT

Student-ID,
 $(\text{days-present} / \text{total-days} * 100)$ AS attendance-
 Percentage
 Case

WHEN $(\text{days-present} / \text{total-days} * 100) \geq 90$ THEN 'Excellent'
 WHEN $(\text{days-present} / \text{total-days} * 100)$ Between 75 AND 89
 THEN 'Good'

WHEN $(\text{days-present} / \text{total-days} * 100) < 75$ THEN
 ('Needs improvement')

END AS Attendance_Status

FROM

attendance;

Student-ID	attendance_Percentage	Attendance_Status
1	90,0	Excellent
2	60,0	Need improvement
3	96,0	Excellent
4	50,0	Needs improvement
5	100,0	Excellent

Q8

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

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

Q9

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
Math	30	Large
English	25	Large
Science	15	Medium
Art	5	Small
History	20	Medium

Q-10

SELECT fro 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.