

Exercise 3

Q1)

```

SELECT Product-name, Price
Case
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
FROM employees

```

emp-name	department	Salary	Position level
John	IT	85000	Senior IT
Sara	HR	60000	Experienced HR
Mark	IT	75000	Staff
Luey	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 ≤ 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 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,

(days-present / total-days * 100) AS attendance-
Percentage

Case

WHEN (days-present / total-days * 100) ≥ 90 THEN 'Excellent'

WHEN (days-present / total-days * 100) BETWEEN 75 AND 89
THEN 'good'WHEN (days-present / 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 Pmt.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.

```