Exercise 3 : SQL CASE Statement

1. SELECT
product_name,
price
CASE
WHEN price > 1000 THEN 'Expensive'
WHEN price BETWEEN 100 AND 1000 THEN 'Mid rang
ELSE 'Budget'
END AS price category
FROM products;

product name	price	price category
Laptop	1200	Expensive
Phone	800	Mid-range
keyboard	45	Budget
Monitor	300	Mid-range
Mouse	25	Budget

2. SELECT
Customer_name,
amount,
CASE
WHEN amount >= 1000 THEN 'High Value'
WHEN amount 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

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'
EISE '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

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)
  EISE '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

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'
 EISE '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

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 label
Login issue	1	Low
Server down	3	High
Slow system	2	Medium
Email error	2	Medium
Password reset	1	Low

7. SELECT
student id
(days present * 100/total days) AS attendance percentage,
CASE
WHEN (days present * 100/total days) >= 90 THEN 'Excellent'
WHEN (days present * 100/total days) BETWEEN 75 AND 89 THEN 'Good'
ELSE 'Needs improvement'
END AS attendance status
FROM attendance

student id	attendance percentage	attendance status
1	90.0	Excellent
2	60.0	Needs improvement
3	96.0	Excellent
4	50.0	Needs improvement
5	100.0	Excellent

8.
```
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

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 students	class size category
Math	30	Large
English	25	Large
Science	15	Medium
Art	5	Small
History	20	Medium

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	Cash	50.00	Not eligible
2	Cash	200.00	Fligible for discount
3	Cash	150.00	Not eligible
4	PayPal	75.00	Not eligible
5	Cash	300.00	Fligible for discount