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,
amount,
payment_method
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	Card	50.00	Not Eligible
2	Cash	200.00	Eligible for Dis
3	Card	150.00	Not Eligi
4	Paypal	75.00	Not Eligi
5	Cash	300.00	Eligible for D

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 products_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

delivery id	delivery time minutes	performance
1	45	~~Late~~ On Time
2	80	~~Fast~~ Late
3	30	~~Late~~ 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 ~~AS~~ 'Needs Improvement'
END AS attendance_status

```
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'
          ELSE 'F'
    END AS grade
FROM  students;
```

Student name	Score	grade
Ana	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'
          ELSE 'Late'
    END AS performance
FROM deliveries;
```

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'
ELSE 'Staff'
END AS position_level
FROM employees;

emp_name	department	salary	position_level
John	IT	85000	Senior IT
Sara	HR	60 000	Experienced HR
Mark	IT	75000	Staff
Lucy	Finance	95000	Staff
Tom	HR	55000	Staff

Exercise 3 SQL CASE Statements

1. 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 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'
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