

Exercise 3

```
1. SELECT product_name, price
CASE
    WHEN price > 1000 THEN 'Expensive'
    WHEN price BETWEEN 100 AND 1000 THEN 'Mid-range'
    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
    WHEN amount BETWEEN 5000 AND 999.99
    THEN 'Medium Value'
    ELSE 'Low Value'
END AS order_value_category
FROM orders;
```

customer_name	amount	order_value_category
Alice	150	Low Value
Bob	560	Medium
Charlie	999.99	Medium
Diana	45.50	Low
Ethan	1200.00	High

SELECT

emp_name
 department
 salary
 pension_level
 FROM employees
 WHERE department = 'IT' AND salary > 50000
 THEN 'Senior IT'
 WHEN department = 'IT' AND salary > 40000
 THEN 'Intermediate IT'
 ELSE 'Staff'

emp_name	department	salary	pension_level
John	IT	55,000	Senior IT
Sam	IT	45,000	Intermediate IT
Mark	IT	35,000	Staff
Larry	Finance	35,000	
Tom	IT	35,000	

4. SELECT

student_name

score,

CASE

WHEN score >= 90 THEN 'A'

WHEN score BETWEEN 80 & 89 THEN 'B'

" TO 70 THEN 'C'

" 60 & 69 THEN 'D'

ELSE 'F'

END AS grade

FROM students

student_name	score	grade
Ava	92	A
Ben	76	C
Les	69	F
David	83	B
Ella	67	D

SELECT
CASE

delivery - id, delivery - time - minutes
 WHEN delivery - time - minutes < 30 THEN 'Early'
 WHEN delivery - time - minutes BETWEEN 31 and 60
 ELSE 'Late'

5

END AS performance

FROM deliveries

delivery - id	delivery - time - minutes	performance
1	45	On Time
2	90	Late
3	30	Early
4	65	Late
5	100	Late

6. SELECT

issue - type, priority

CASE

WHEN priority = 3 THEN 'High'

WHEN priority = 2 THEN 'Medium'

" = 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

students - id, (days - present * 100 / total - days)

AS attendance & percentage

CASE

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

BETWEEN 75 and 90 THEN 'Good'

ELSE '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	60	Needs Improvement
5	100	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

9. SELECT

CASE

subject, enrolled_students,

WHEN enrolled_students ≥ 25 THEN 'Large'

WHEN enrolled_students BETWEEN 10 & 24 THEN 'Medium'

ELSE 'Small'

END

AS class_size_category

FROM

classes;

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	Card	50	Not Eligible
2	Cash	200	Eligible for Discount
3	Card	150	Not Eligible
4	Paypal	75	"
5	Cash	300	Eligible for Discount