

Exercise 5
CASE statement

Table: products

①	product_id	product_name	price
1		Laptop	1200.00
2		Phone	800.00
3		Keyboard	45.00
4		Monitor	300.00
5		Mouse	25.00

SELECT product_name, price

CASE

WHEN price < 100 THEN 'Budget'

WHEN price BETWEEN 100 AND 1000 THEN 'Mid-range'

ELSE 'Expensive'

END AS price_category

FROM products;

outcome	product_name	price	price_category
1	Laptop	1200	Expensive
2	Phone	800	Mid-range
3	Keyboard	45	Budget
4	Monitor	300	Mid-range
5	Mouse	25	Budget

②	order_id	customer_name	amount	[orders]
1		Alice	1500.00	
2		Bob	560.00	
3		Charlie	999.99	
4		Diana	45.50	
5		Ethan	1200	

SELECT customer_name, amount

CASE

WHEN amount < 500 THEN 'low value'

WHEN amount BETWEEN 500 AND 999.99 THEN 'medium value'

ELSE 'High value'

END AS order_value_category

FROM orders;

(3)

emp_id	emp_name	department	salary
1	John	IT	85000
2	Sara	HR	60000
3	Mark	IT	75000
4	Lucy	Finance	95000
5	Tom	HR	55000

SELECT emp_name, department, salary

CASE

WHEN salary > 80000 THEN 'Senior IT'

WHEN salary > 55000 THEN 'Experienced HR'

ELSE 'Staff'

END AS position_level

FROM employee.

Table: student

4	student_id	student_name	score
1		Ama	92
2		Ber	76
3		Cara	59
4		David	83
5		Ella	65

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 ' \leq 60 'F'

END AS grade

FROM students.

Table : deliveries

⑤

delivery_id	delivery_time_minutes
1	45
2	80
3	30
4	65
5	100

SELECT delivery_id, delivery_time_minutes

CASE

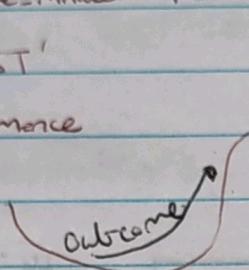
WHEN delivery_time_minutes <= 60 THEN 'Late'

WHEN delivery_time_minutes BETWEEN 31 AND 60 THEN 'On Time'

ELSE 'Fast'

END AS performance

FROM deliveries



delivery_id	delivery_time_min	Performance
1	45	On Time
2	80	Late
3	30	Fast
4	65	Late

Table : tickets

ticket_id	issue_type	priority
1	login issue	1
2	server down	3
3	slow system	2
4	Email error	2
5	Password reset	1

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;

Table: attendance

(7)

student_id	days_present	total_day
1	45	50
2	30	50
3	48	50
4	25	50
5	50	50

SELECT student_id, attendance_percentage AS days_present

CASE

WHEN (days_present * 100 / total_day) >= 90 THEN 'Excellent'

WHEN (days_present * 100 / total_day) BETWEEN 75 AND 89 THEN 'Good'

ELSE 'Need improvement'

END AS attendance_status

FROM attendance.

Table: products-inventory

product_id	stock_qty
1	5
2	0
3	25
4	10
5	3

SELECT product_id, stock_qty

CASE

WHEN stock_qty 5 THEN 'In stock'

WHEN stock_qty BETWEEN 1 AND 5 THEN 'Low stock'

ELSE 'Out of stock'

END AS stock_status

FROM products-inventory

Table: classes

(4)

class_id	subject	enrolled_status
1	MATH	30
2	ENGLISH	25
3	Science	15
4	Art	5
5	HISTORY	20

SELECT subject, enrolled_status

CASE

WHEN enrolled_status > 25 THEN 'Large'

WHEN enrolled_status BETWEEN 10 AND 24 THEN 'medium'

ELSE 'small'

END AS class_size_category

FROM classes;

(5)

Payment_id	Amount	Payment-method
1	50	card
2	200	cash
3	150	card
4	75	PayPal
5	300	cash

Table = payment

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;