

1. Product_id	Product_name	Price	Price - category
1	Laptop	1200.00	Expensive
2	phone	800.00	mid-range
3	key board	45.00	budget
4	monitor	300.00	mid-range
5	mouse	25.00	budget

SELECT product\_name,  
price

CASE

WHEN price < 100 THEN 'Budget'

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

WHEN price > 1000 THEN 'Expensive'

END AS price\_category

FROM products;

2. Order_id	customer_name	amount	order_value_category
1	Alice	150.00	low value
2	Bob	560.00	medium value
3	charlie	999.99	medium value
4	Diana	45.50	low value
5	Ethan	1200.00	High value

SELECT customer\_name,  
amount

CASE

WHEN amount < 500 THEN 'Low value'

WHEN amount BETWEEN 500

AND 999.99 THEN 'medium Value'

ELSE 'High value'

## Exercise 3

## Questions

## 3. SELECT

emp-name,  
department,  
Salary

CASE

WHEN

department = 'IT' AND salary

WHEN

department = 'HR' AND salary

ELSE

'staff'

END AS

position\_level

FROM

employees;

emp_id	emp-name	department	salary	employee position
1	John	IT	85000	Senior IT
2	Sara	HR	60000	Experience HR
3	Mark	IT	75000	Staff
4	Lucy	Finance	45000	Staff
5	Tom	HR	55000	Experience

4. SELECT student\_name,  
Score,

CASE

WHEN Score &gt;= 90 THEN 'A'

WHEN Score BETWEEN 80 AND 89 THEN

WHEN Score BETWEEN 70 AND 79 THEN

WHEN Score BETWEEN 60 AND 69 THEN

~~END~~ ELSE 'F'

END AS grade

FROM students;

student_id	student_name	score	letter grade	category
1	Anna	92	A	

2	Ben	76	C
3	Caro	59	F
4	David	83	B
5	Ellie	68	D

5 SELECT delivery\_id,  
delivery\_time\_minutes

CASE

WHEN delivery\_time\_minutes  $\leq 30$  THEN 'Fast'

WHEN delivery\_time\_minutes BETWEEN 31 AND 60 THEN  
'on time'

ELSE 'Late'

END AS performance

FROM deliveries

delivery_id	delivery_time_minutes	label	delivery_time_mins	category
1	45	on-time		
2	80	on-time		
3	30	fast		
4	60	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

Ticket_id	Issue_type	Priority	Priority to labels cat.
1	Login issue	1	low
2	Server down	3	high
3	slow system	2	medium
4	email error	2	medium
5	password	1	low

7. SELECT student\_id,  
 $(\text{days\_present} * 100.0 / \text{total\_days})$  AS attendance\_percent  
CASE  
WHEN  $(\text{days\_present} * 100.0 / \text{total\_days}) \geq 90$   
WHEN  $(\text{days\_present} * 100.0 / \text{total\_days})$  BETWEEN 75 AND 89  
END AS attendance\_status  
FROM attendance;

student_id	days_present	total_days	attendance % & classify cat.
1	45	50	excellent
2	30	50	needs improvement
3	48	50	excellent
4	25	50	need improvement
5	50	50	excellent

8. SELECT product\_id,  
stock\_qty,  
CASE  
WHEN stock\_qty = 0 THEN 'out of stock'  
WHEN stock\_qty BETWEEN 1 AND 5 THEN 'low stock'  
ELSE 'in stock'  
END AS stock\_status  
FROM products\_inventory;

9. SELECT subject,  
enrolled\_students,

CASE

WHEN enrolled\_students  $\geq 25$  THEN 'large'

WHEN enrolled\_students BETWEEN 10 AND 24 THEN 'medium'

ELSE 'small'

END AS class\_size\_category

FROM classes;

product_id	stock_qty	label	stock	status	category
1	5		in stock		
2	0		out of stock		
3	25		In stock		
4	10		In stock		
5	3		low stock		

9. class_id	subject	enrolled_students	classify by size
1	Math	30	medium
2	English	25	large
3	Science	15	medium
4	Art	5	small
5	History	20	medium

SELECT subject,  
enrolled\_students,

CASE

WHEN enrolled\_students  $\geq 25$  THEN 'large'

WHEN enrolled\_students BETWEEN 10 AND 24 THEN 'medium'

ELSE 'small'

END AS class\_size\_category

FROM classes;

9. SELECT subject,  
enrolled\_students,

CASE

WHEN enrolled\_students  $\geq 25$  THEN 'large'  
WHEN enrolled\_students BETWEEN 10 AND 24 THEN 'medium'  
ELSE 'small'  
END AS class\_size\_category  
FROM classes;

8. product_id	stock_qty	label	stock	status	category
1	5			in stock	
2	0			out of stock	
3	25			In stock	
4	10			In stock	
5	3			low stock	

9. class_id	subject	enrolled_students	classify by size
1	Math	30	medium
2	English	25	large
3	Science	15	medium
4	Art	5	small
5	History	20	medium

SELECT subject,  
enrolled\_students,

CASE

WHEN enrolled\_students  $\geq 25$  THEN 'large'  
WHEN enrolled\_students BETWEEN 10 AND 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  $\geq 200$  THEN  
'eligible for discount'  
ELSE 'Not Eligible'  
END AS discount\_eligibility  
FROM payments

payment_id	amount	payment_method	apply discount	category
1	50.00	card	<del>apply discount</del>	
2	200.00	card	eligible for discount	
3	150.00	card		
4	75.00	paypal		
5	300.00	card	eligible for discount	