

1. Product_id	Product_name	Price	Price - category
1	laptop	1200.00	Expensive
2	phone	800.00	mid-range
3	keyboard	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 > 100 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 c
1	John	IT	85000	Senior IT
2	Sara	HR	60000	Experience HR
3	Mark	IT	75000	staff
4	Lucy	Finance	95000	staff
5	Tom	HR	55000	Experience

4. SELECT student_name,
Score,

CASE

WHERE Score >= 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	Cora	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 cate
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 cate
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;

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;

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 >= 200 THEN '
      eligible for discount'
```

```
ELSE 'Not Eligible'
```

```
END AS discount_eligibility
```

```
FROM payments
```

payment_id	amount	payment_method	apply discount category
1	\$0.00	card	apply discount
2	200.00	card	eligible for discount
3	150.00	card	
4	75.00	paypal	
5	300.00	card	eligible for discount