

Modise L.E
SQL Case Statements
Exercise 3: SQL case Statements

```

1) SELECT product_name, price
CASE
WHEN price > 1000 THEN 'Expensive'
WHEN price BETWEEN 1000 THEN 'Mid-range'
ELSE 'Budget'
END AS order_value_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'
ELSE '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

```

3) SELECT emp_name, department, salary
CASE
  WHEN department = 'IT' AND salary > 80000 THEN 'Senior IT'
  WHEN department = 'HR' AND salary > 55000 THEN 'Experienced'
  ELSE 'Staff'
END AS position_level
FROM employees

```

emp_name	department	Salary	position_level
John	IT	85000	Senior IT
Sara	HR	60000	Experienced HR
Mark	IT	75000	Staff
Lucy	Finance	95000	Staff
Tom	HR	55000	Staff

```

4) 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'
  ELSE 'F'
END AS grade
FROM students;

```

Student_name	Score	grade
Anna	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

```

delivery_id	delivery_time_minutes	performance
1	45	on Time
2	80	Fast Late
3	30	Fast
4	65	Late
5	100	Late

```

6) SELECT issue_type, priority
CASE
WHEN
WHEN
WHEN
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 /
    (days_present * 100 / total_days) >= 90 THEN 'Excellent'
CASE
    WHEN (days_present * 100 / total_days) = 90 THEN 'Excellent'
    WHEN (days_present * 100 / total_days)
    ELSE 'Needs improvements'
END AS attendance_status
FROM attendance;

```

Student	attendance_percentage	attendance_status
1	90.0	Excellent
2	60.0	Needs improvement
3	96.0	Excellent
4	80.0	Needs improvements
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 product_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 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 class;

```

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, payment_method, amount
CASE
    WHEN payment_method = 'cash' AND amount >= 20 THEN 'Eligible for Discount'
    ELSE 'NOT ELIGIBLE'
END As discount_eligibility
FROM payments;

```

Payment_id	Payment_method	amount	discount_eligible
1	Card	50.00	Not Eligible
2	Cash	200.00	Eligible for D
3	Card	150.00	Not Eligible
4	Paypal	75.00	Not Eligible
5	Cash	300.00	Eligible for disc