

## Exercise 3: SQL CASE statements

1. SELECT product\_name,  
price,

CASE

WHEN price > 1000 THEN 'Expensive'

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

WHEN price < 100 THEN 'Budget'

END AS price-category

FROM products;

Products

Product-name	Price	Price-category
Laptop	1200.00	Expensive
Phone	800.00	Mid-range
keyboard	45.00	Budget
Monitor	300.00	Mid-range
Mouse	25.00	Budget

2. SELECT customer\_name,  
amount,

CASE

WHEN amount >= 1000 THEN 'High Value'

WHEN amount BETWEEN 500 and 999.99 THEN 'Medium Value'

WHEN amount < 500 THEN 'Low Value'

END AS order-value-category

FROM orders;



## Orders

Customer_name	amount	order <del>total</del> 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 salary > 80 000 AND department = 'IT' THEN 'Senior IT'  
WHEN salary > 55 000 AND department = 'HR' THEN 'Experienced  
HR'

ELSE 'staff'

END AS position\_level  
FROM employees;

employees.

emp - name	department	salary	position_level
John	IT	85 000	Senior IT
Sara	HR	60 000	Experienced HR
Mark	IT	75 000	Staff
Lucy	finance	95 000	Staff
Tom	HR	55 000	Staff



4. SELECT student - name,  
score,

CASE

WHERE score  $\geq$  90 THEN 'A'

WHERE score BETWEEN 80 and 89 THEN 'B'

WHERE score BETWEEN 70 and 79 THEN 'C'

WHERE score BETWEEN 60 and 69 THEN 'D'

WHEN score  $<$  60 THEN 'F'

END AS grade

FROM students ;

Student name	Score	Grade
Anna	92	A
Ben	76	C
Carl	59	F
David	83	B
Ella	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'

WHEN delivery - time - minutes = 60 THEN 'Late'

END AS performance

FROM deliveries ;



deliveries		
delivery-id	delivery-time minutes	performance
1	45	On Time
2	80	Late
3	30	Fast
4	65	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;

tickets		
Issue type	Priority	priority label
Long-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 / total\_days) \* 100) AS attendance\_Percentage;

CASE

WHEN attendance\_percentage > 90 THEN 'Excellent'

WHEN attendance\_percentage BETWEEN 75 and 89 THEN 'Good'

WHEN attendance\_percentage < 75 THEN 'Needs Improvement'

END AS attendance\_status

FROM attendance;

attendance

student_id	attendance_percentage	attendance_status
1	90	Excellent
2	60	Needs Improvement
3	96	Excellent
4	50	Needs Improvement
5	100	Excellent

8. SELECT Product\_id,  
 Stock\_qty;

CASE

WHEN Stock\_qty = 0 THEN ~~Low~~ 'Out of Stock'

WHEN Stock\_qty BETWEEN 1 and 5 THEN 'Low Stock'

WHEN Stock\_qty > 5 THEN 'In Stock'

END AS Stock\_status

FROM products\_inventory;



## 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 subject, enrolled-students,  
CASE WHEN enrolled-students  $\geq$  25 THEN 'Large'  
WHEN enrolled-students BETWEEN 10 and 24 THEN 'Medium'  
WHEN enrolled-students  $<$  10 THEN 'Small'  
END AS class-size-category  
FROM classes;

## Classes

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 > 200  
THEN Eligible for  
discount'

~~WHEN~~ ELSE 'not Eligible'  
END AS discount\_eligibility  
FROM payments;

Payments

Payment_id	Payment_method	Method	discount_eligibility
1	Card	50.00	Not eligible
2	Cash	200.00	Eligible
3	Card	150.00	Not eligible
4	Pay Pal	75.00	Not eligible
5	Cash	300.00	Eligible.