

Exercise 3

Classify products by Price

Select product-name,

Price,

CASE WHEN Price > 1000 THEN 'Expensive'

WHEN price BETWEEN 100 AND 1000 THEN

ELSE 'Budget'

END AS price-category

From products

Output

Product-name	Price	Price-category
Laptop	1200	Expensive
Phone	800	Mid-range
Keyboard	45	Budget
Monitor	300	Mid-range
Mouse	25	Budget

Label order by value

Select customer-name,

amount,

CASE

WHEN amount >= 1000 THEN 'High Value'

WHEN amount BETWEEN 500 AND 999.99 THEN

ELSE 'Low Value'

END AS order-value-category

From orders

Output

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

③ Categorize employee position

Select emp_name
department,
Salary

CASE

When department = 'IT' AND Salary > 80000 THEN
'Senior IT'

When department = 'HR' AND Salary > 55000 THEN
'Experienced HR'

Else 'Staff'

END AS position_level

From employees

Output

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_names
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' '0'

Else 'F'

END AS grade

From Student

Output

Student name	Score	Grade
Anna	92	A
Ben	76	C
Cara	59	F
David	83	B
Ellie	68	D

5) Label delivery performance
 Select delivery-id,
 delivery-time-minutes

CASE

WHEN delivery-time-minutes < 30 THEN

WHEN delivery-time-minutes BETWEEN 30

THEN 'On Time'

ELSE 'Late'

END AS performance

From deliveries;

Output

delivery-id	delivery-time-mins	performance
1	45	On Time
2	80	Late
3	30	Fast
4	65	Late
5	100	Late

6) Convert Priority to labels
 Select issue-type
 Priority

CASE

WHEN priority = 3 THEN 'High'
 WHEN priority = 2 THEN 'Medium'
 WHEN priority = 1 THEN 'Low'
 END AS priority

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Output

Student name	Score	Grade
Anna	92	A
Ben	76	C
Cara	59	F
David	83	B
Ella	68	D

5) Label delivery performer
 Select delivery-id,
 delivery-time-minutes

CASE

WHEN delivery-time-minutes < 30 THEN

WHEN delivery-time-minutes BETWEEN 31 AND

THEN 'On Time'

Else 'Late'

END AS performance

From deliveries,

Output

delivery-id	delivery-time-minutes	performer
1	45	On Time
2	80	Late
3	30	Fast
4	65	Late
5	100	Late

6) Convert Priority to labels
 Select issue-type
 Priority

CASE

WHEN priority = 3 THEN 'High'
 WHEN priority = 2 THEN 'Medium'
 WHEN priority = 1 THEN 'Low'
 END AS priority

From ticket

Output

Issue-type	Priority	Priority-label
Log Issue	1	Low
Server down	3	High
Slow system	2	medium
Email error	2	Medium
Password	1	Low

1) 'Attendance - percentage and status

Select

Student id,

 $(\text{days-present} * 100 / \text{total-days})$ AS attendance-percentage

CASE

 WHEN $(\text{days-present} * 100 / \text{total-days}) \geq 90$ THEN 'Excellent'

 WHEN $(\text{days-present} * 100 / \text{total-days})$ BETWEEN 75 AND 89 THEN 'Good'

Else 'Needs Improvement'

END as attendance-status

from attendance

Output

Student-id	attendance-percentage	attendance-status
1	90.0	Excellent
2	60.0	needs Improvement
3	96.0	Excellent
4	50.0	Needs Improvement
5	100.00	Excellent

8) Label Stock Status

Select product_id, Stock_qty

CASE

WHEN Stock_qty = 0 THEN 'Out of Stock'

WHEN Stock_qty Between 1 AND 4 THEN

ELSE 'In Stock'

END AS Stock-Status

From products inventory

Output 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) Classify Class Size

Select subject, enrolled-students

CASE

WHEN enrolled-student >= 25 THEN 'Large'

WHEN enrolled-student Between 10 and 24

ELSE 'Small'

END AS class-size-category

From Classes

Output subject	enrolled-students	Class-size-category
Math	30	Large
English	25	Large
Science	15	Medium
Art	5	Small
Music	20	Medium

Apply discount flag

Select payment-id, ~~payment~~
payment-method
amount

CASE

WHEN payment-method = 'Cash' AND amount
≥ 200 THEN 'eligible
for discount'

ELSE 'not eligible'
END as discount-eligibility)
From payments