

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 productsOutput

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 ordersOutput

Customer-name	amount	order-value-category
Alice	180.00	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

<u>emp-name</u>	<u>department</u>	<u>salary</u>	<u>Position-level</u>
John	IT	85000	Senior IT
Sara	HR	60000	Experienced HR
Mark	IT	78000	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 'E'

When score Between 60 and 69 Then 'D'

Else 'F'

A END AS grade

From Student

Output

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

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

CASE

WHEN delivery-time-minutes < 30 THEN
 WHEN delivery-time-minute BETWEEN 30 AND 60 THEN 'ON TIME'
 Else 'Late'

END AS performance
 From deliveries;

Output

delivery-id	delivery-time-minutes	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 performance
 Select delivery-ids
 delivery-time-minutes

CASE

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  WHEN delivery-time-minutes < 30 THEN 'Fast'
  WHEN delivery-time-minutes BETWEEN 31 AND
    THEN 'On Time'
  Else 'Late'
END AS performance
FROM deliveries,
  
```

Output

delivery-id	delivery-time-minutes	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
  
```

Output

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

1) Attendance - percentage and status

Select

Student-id,

(Days-present * 100 / total-days) AS attendance-percentage

CASE

WHEN (Days-present * 100 / total-days) >= 90 THEN 'Excellent'

WHEN (Days-present * 100 / total-days) BETWEEN
75 AND 88 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	100.0	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

'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_student,

CASE.

WHEN enrolled_student >= 25 THEN 'Large'

WHEN enrolled_student Between 10 and

(Me)

Else 'Small'

END AS class_size_category

From Classes

Output subject	enrolled_student	class_size_cat
Math	30	Large
English	25	Large
Science	15	Medium
Art	5	Small
Voice	11	Medium

APPLY discount flag

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

CASE

WHEN payment-method = 'Cash' AND amount
> 200 THEN 'Eligible'
for discount

ELSE 'not eligible'
END AS discount-eligibility
FROM payments