

Exercise 3: SQL Case Statements

1 Select product name, price
Case

When price < 100 then 'Budget'

When price between 100 and 1000 then 'mid range'

When price > 1000 then 'expensive'

End as price category

From products

Product name	Price	Price category
Laptop	1200	Expensive
Phone	800	Mid range

Keyord	45	budget
Minut	300	Mid range
Max	25	budget

2 Select 1 customer name, amount
Case

when amount < 500 then 'low value'

when amount between 500 and 999 then 'medium value'

when amount equal or greater than 1000 then 'high value'
End as order - value category

From orders

Customer name	Amount	Order - value category
Alice	150	Low value
Bob	550	Medium value
Charlie	999.99	Medium value
Diana	45.50	Low value
Ethan	1200	High value

3 Select emp name, department, salary
Case

when department = 'IT' and salary > 8000 then
'Senior IT'

when department = 'HR' and salary > 8000 then
'Experienced HR'
Else 'Staff'

End as position level
from employees

Emp #	Name	Department	Salary	Position level
Jenn		IT	80000	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 80-89 then 'B'

when score between 70-79 then 'C'

when score between 60-69 then 'D'

when score < 60 then '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 min then 'fast'

when delivery time minutes between 31-60 min then
'on time'

When delivery $>= 60$ then 'late'

End as performance

From deliveries

Delivery id	Delivery time minutes	Performance
1	45	On time
2	56	Late
3	36	Fast
4	65	Late
5	100	Late

6 Select issue type, prft priority
Case

when prft priority = 1 then 'low'

when prft priority is equal to 2 then 'medium'

when priority is equal to 3 then 'High'

End as prft priority label

From tickets

Issue type	Priority	Priority label
Login issue	1	Low
Server down	3	High
Blow system	2	medium
Email error	2	medium
Password reset	1	Low

7 Select student id,

8 Select product id, stock qty

Case ~~when~~

when stock qty is 0 then 'out of stock'

when stock qty is between 1 and 5 then 'low'

when stock ≥ 5 then 'in stock'

End as stock status

From 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 < 10 then 'small'

when enrolled students is between 10 and 24 then 'medium'

when enrolled students ≥ 25 then 'large'

End as class size category

From 5 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 id, payment method, amount

Case

when payment method is equal to cash AND

when payment amount ≥ 200 then 'Eligible'

Else ~~Not~~ Not Eligible

End as discount eligibility

Payment id	payment method	amount	discount eligible
1	Card	50	Not Eligible
2	Cash	200	Eligible

3	Card	150	Not Eligible
4	Paypal	75	Not eligible
5	Cash	300	Eligible

7. Select student id, (days - present / total days)

* 100 as ~~percentage~~ attendance - percentage
then

Case #

when attendance percentage $\leq 75\%$, 'needs improvement'

When attendance percentage is between 76 and 89 then 'Good'

When attendance percentage ≥ 90 then 'Excellent'

End as attendance status

from attendance

Student id	Attendance percentage	Attendance status
1	90%	Excellent
2	60%	Needs improvement
3	96%	Excellent
4	50%	needs improvement
5	100%	Excellent

Exercise 11

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