SQL Join Table Question Task :

Table from MySql database :

Question : 8. What is the total items and amount spent for each member before they became a member?

Code:

mydb = mysql.connector.connect(  
 host="localhost",  
 user="root",  
 password="Deni@123",  
 database="challenge1"  
 )  
 cur = mydb.cursor()  
 sql = """select s.customer\_id as customer, COUNT(s.product\_id) AS total\_items, sum(m.price) as total\_price from sales s   
 left join members ms on s.customer\_id = ms.customer\_id  
 left join menu m on m.product\_id = s.product\_id  
 where s.order\_date < ms.join\_date   
 group by s.customer\_id;  
  
"""  
 cur.execute(sql)  
 res = cur.fetchall()  
 for i in res:  
 print(i)

OutPut:

('A', 2, Decimal('25'))

('B', 3, Decimal('40'))

Question : 9. If each $1 spent equates to 10 points and sushi has a 2x points multiplier - how many points would each customer have?

Code:

mydb = mysql.connector.connect(  
 host="localhost",  
 user="root",  
 password="Deni@123",  
 database="challenge1"  
 )  
 cur = mydb.cursor()  
 sql = """WITH points\_collect AS (  
 SELECT   
 menu.product\_id,   
 CASE  
 WHEN product\_id = 1 THEN price \* 20  
 ELSE price \* 10  
 END AS points  
 FROM menu  
)  
  
SELECT   
 sales.customer\_id,   
 SUM(points\_collect.points) AS total\_points  
FROM sales  
JOIN points\_collect  
 ON sales.product\_id = points\_collect.product\_id  
GROUP BY sales.customer\_id  
ORDER BY sales.customer\_id;  
"""  
 cur.execute(sql)  
 res = cur.fetchall()  
 for i in res:  
 print(i)

OutPut:

Hi, PyCharm

('A', Decimal('860'))

('B', Decimal('940'))

('C', Decimal('360'))