SQL Data Analysis-1

Role:

As a data analyst, I need to analyze the data that will help them to understand the operations in the startup.

In this,I have used Mysql to analyze the data

CASE STUDY #1



DATAWITHDANNY.COM

Need of Analysis:

To analyse the data of the restaurant that just started few months ago That will help to run the business in an efficient manner and emphasizing on understanding the choices of the customer

A little introduction of the restaurant: It focuses on the Japanese Food that sell three foods – Sushi ,curry and ramen.

They had just started the loyalty membership program and that gives rewards to the customer who became a member.

Understanding the ways to expand the membership program.

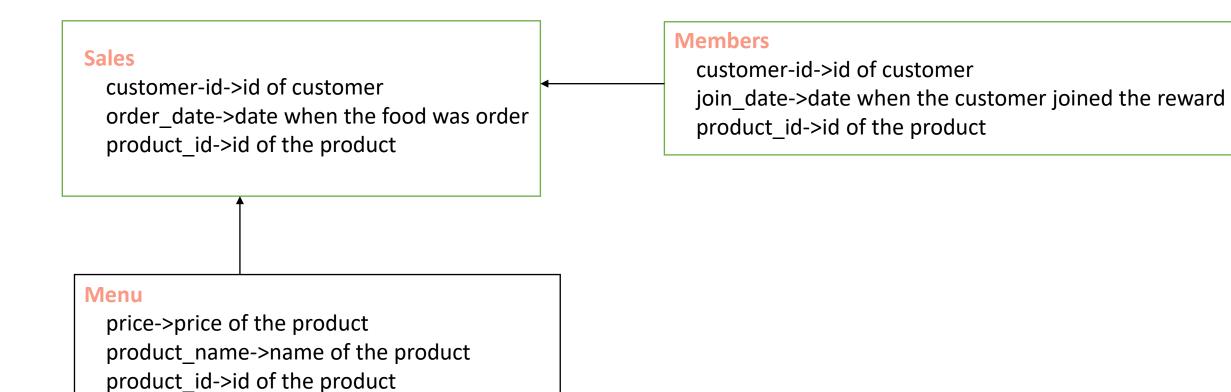
Three tables:

Sales Menus

members

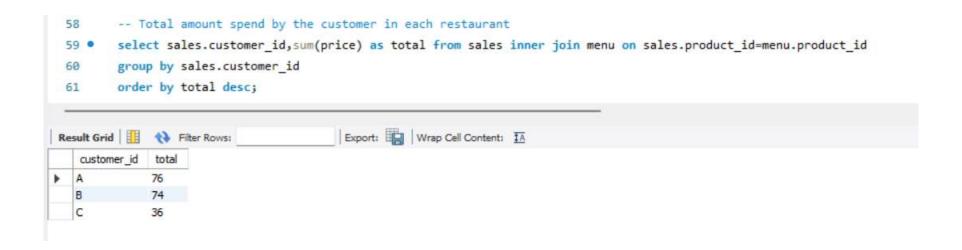


Understanding the Schema of this project



Let us begin with the Analysis

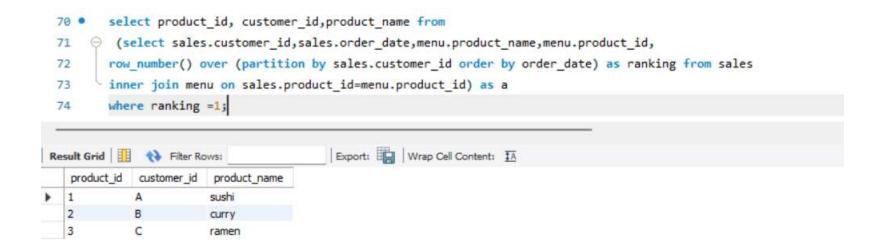
Total Item spend by each customer at the restaurant



How many days each customer visited the restaurant

```
-- how many days each customer visited the restaurant
 63
        select customer_id,count(distinct (order_date)) as total_days from
 64 •
        sales
 65
 66
        group by customer_id;
 67
                                        Export: Wrap Cell Content: IA
Result Grid
             ♦ Filter Rows:
  customer_id
            total_days
             6
             2
```

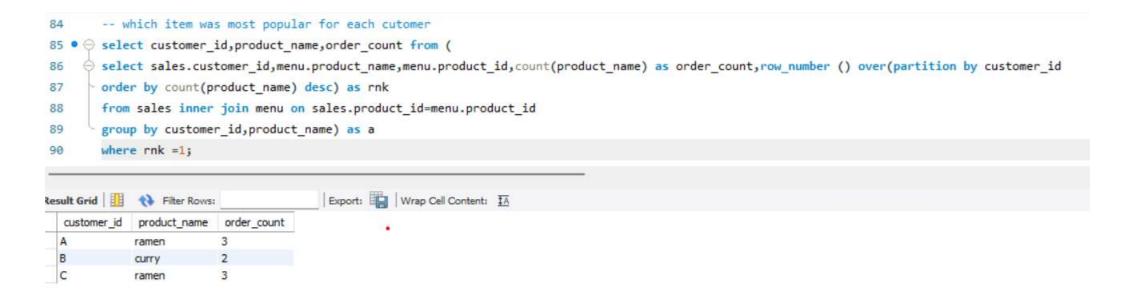
The first item from the menu purchased by each customer



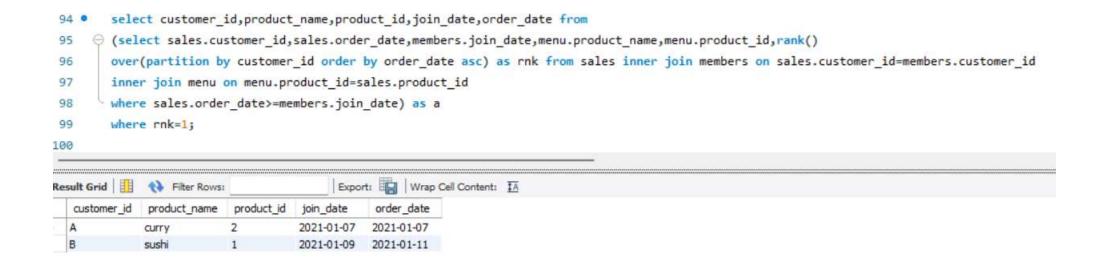
Most purchased item on the menu and how many times was it purchased by all customers

```
-- most purchased item in the menu and how many times it was purchased
76
       select count(product_name) as total ,menu.product_name,menu.product_id
77 •
        from sales
78
       inner join menu on sales.product_id=menu.product_id
79
        group by product_name
80
        order by total desc
81
       limit 1;
82
                                      Export: Wrap Cell Content: A Fetch rows:
product_name product_id
                   3
```

Item was the most popular for each customer



Item was purchased first by the customer after they became a member

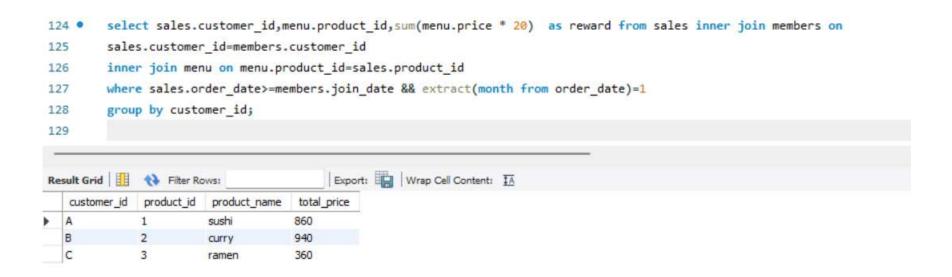


Item was purchased just before the customer became a member

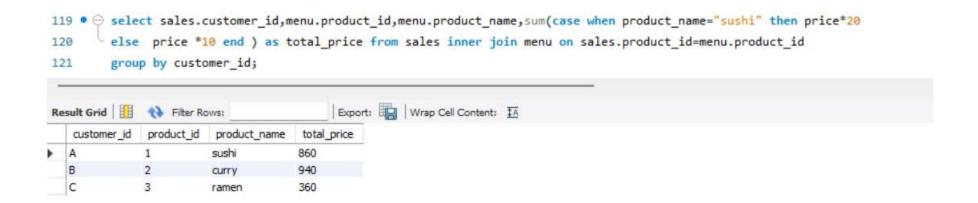
```
-- before they became a member
101
        select customer_id,product_name,product_id,join_date,order_date from
102 •

⊖ (select sales.customer_id,sales.order_date,members.join_date,menu.product_name,menu.product_id,
103
        row_number() over (partition by customer_id order by order_date asc) as rnk from sales
104
         inner join members on sales.customer_id=members.customer_id
105
        inner join menu on menu.product_id=sales.product_id
106
        where sales.order_date(members.join_date) as a
107
        where rnk=1;
108
109
Result Grid
              Filter Rows:
                                          Export: Wrap Cell Content: IA
   customer id
             product name product id join date
                                               order date
                                    2021-01-07
             sushi
                                               2021-01-01
             curry
                                    2021-01-09 2021-01-01
```

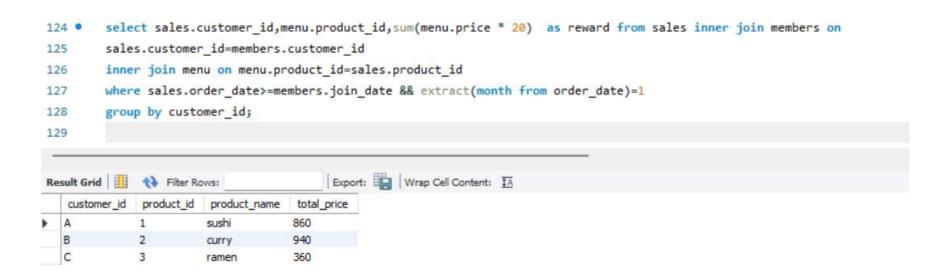
Total items and amount spent for each member before they became a member



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



In the first week after a customer joins the program (including their join date) they earn 2x points on all items, not just sushi - how many points do customer A and B have at the end of January?



Insights about the Restaurant:

- ✓ A spend the most amount followed by B and C.
- ✓ B frequently visit the restaurant followed by A and C.
- ✓ First Dish ordered by A is Sushi. First Dish ordered by B is curry .First Dish ordered By C is ramen.
- ✓ The most item that was purchased is Ramen.
- ✓ The most popular dish for A and C is ramen and B is Curry.
- ✓ A and B became member of the loyalty program and ordered sushi and curry after they became a member.
- ✓ They ordered the same food before they became a member.
- ✓ B has the maximum points followed by A and C.

Thankyou