Danny's Dinner SQL Results

1 What is the total amount each customer spent at the restaurant?

customer	total_spent
A	76
B	74
C	36

2 How many days has each customer visited the restaurant?

customer_id	days
A	4
B	6
C	2

3 What was the first item from the menu purchased by each customer?

customer_id	product_name
A	curry
A	sushi
B	curry
C	ramen

4 What is the most purchased item on the menu and how many times was it purchased by all customers?

product_name	frequency
ramen	8

5 Which item was the most popular for each customer?

customer_id	product_name	frequency
A	ramen	3
B	curry	2
B	ramen	2
B	sushi	2
C	ramen	3

6 Which item was purchased first by the customer after they became a member?

customer_id	product_name	join_date	order_date
B	sushi	2021-01-09	2021-01-11
A	curry	2021-01-07	2021-01-07

7 Which item was purchased just before the customer became a member?

customer_id	product_name	join_date	order_date
A	sushi	2021-01-07	2021-01-01
A	curry	2021-01-07	2021-01-01
B	sushi	2021-01-09	2021-01-04

8 What is the total number of items and amount spent for each member before they became a member?

customer_id	unique_items	amount_spent
A	2	25
B	3	40

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

customer_id	points
A	860
B	940
C	360

10 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?

customer_id	points
A	1370
B	820

Bonus

Create a table for Danny that shows if a customer was a member or not when a purchase was made

customer_id	order_date	product_name	price	_member
A	2021-01-01	sushi	10	N
A	2021-01-01	curry	15	N
A	2021-01-07	curry	15	Y
A	2021-01-10	ramen	12	Y
A	2021-01-11	ramen	12	Y
A	2021-01-11	ramen	12	Y
B	2021-01-01	curry	15	N
B	2021-01-02	curry	15	N
B	2021-01-04	sushi	10	N
B	2021-01-11	sushi	10	Y
B	2021-01-16	ramen	12	Y
B	2021-02-01	ramen	12	Y
C	2021-01-01	ramen	12	N
C	2021-01-01	ramen	12	N
C	2021-01-07	ramen	12	N

Danny also requires further information about the ranking of customer products by order_date. However, he purposely does not need the ranking for non-member purchases. So, he expects null ranking values for the records when customers are not yet part of the loyalty program.

customer_id	order_date	product_name	price	_member	product_rank
A	2021-01-01	sushi	10	N	*null*
A	2021-01-01	curry	15	N	*null*
A	2021-01-07	curry	15	Y	1
A	2021-01-10	ramen	12	Y	2
A	2021-01-11	ramen	12	Y	3
A	2021-01-11	ramen	12	Y	3
B	2021-01-01	curry	15	N	*null*
B	2021-01-02	curry	15	N	*null*
B	2021-01-04	sushi	10	N	*null*
B	2021-01-11	sushi	10	Y	1
B	2021-01-16	ramen	12	Y	2
B	2021-02-01	ramen	12	Y	3
C	2021-01-01	ramen	12	N	*null*
C	2021-01-01	ramen	12	N	*null*
C	2021-01-07	ramen	12	N	*null*