```
61
62      # 1.What is the total amount each customer spent at the restaurant
63 •        SELECT sales.customer_id,sum(menu.price) AS total_amount_spent
64          FROM sales  JOIN menu menu ON sales.product_id=menu.product_id
65          GROUP BY sales.customer_id;
```

Result Grid | Filter Rows: [   ] | Export: | Wrap Cell Content: A

customer_id	total_amount_spent
▶ A	76
B	74
C	36

```
71      # 2.How many days has each customer visited the restaurant
72 •        SELECT customer_id, COUNT(DISTINCT order_date) number_of_days_customer_visited
73          FROM sales
74          GROUP BY customer_id;
```

Result Grid | Filter Rows: [   ] | Export: | Wrap Cell Content: A

customer_id	number_of_days_customer_visited
▶ A	4
B	6
C	2

```
72      # 3. What was the first item from the menu purchased by each customer
73 •        SELECT customer_id,menu.product_id,menu.product_name
74          from sales
75          JOIN menu ON menu.product_id = sales.product_id
76          group by customer_id;
77
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: $\overline{\text{IA}}$

	customer_id	product_id	product_name
▶	A	1	sushi
	B	2	curry
	C	3	ramen

```
76      # 4.What is the most purchased item on the menu and how many times was it purchased by all customers
77 •        SELECT count(product_name),product_name
78          FROM sales
79          JOIN menu ON menu.product_id=sales.product_id
80          order by product_name;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: $\overline{\text{IA}}$

	count(product_name)	product_name
▶	15	sushi

```
82        # 5. Which item has the most price for each customer
83 •          SELECT customer_id,product_name,price
84           FROM sales
85           JOIN menu  ON sales.product_id = menu.product_id
86           group by customer_id;
```

	customer_id	product_name	price
▶	A	sushi	10
	B	curry	15
	C	ramen	12

```
88        # 6. Which item was purchased first by the customer after they became a member
89 •          SELECT members.customer_id , members.join_date , menu.product_name ,sales.product_id ,sales.order_date
90           FROM members
91           JOIN sales ON members.customer_id = sales.customer_id
92           JOIN menu  ON menu.product_id= sales.product_id;
```

	customer_id	join_date	product_name	product_id	order_date
▶	B	2021-01-09	sushi	1	2021-01-11
	B	2021-01-09	sushi	1	2021-01-04
	A	2021-01-07	sushi	1	2021-01-01
	B	2021-01-09	curry	2	2021-01-02
	B	2021-01-09	curry	2	2021-01-01

```
94     # 7. Which item was purchased just before the customer became a member
95  ●    SELECT members.customer_id , members.join_date , menu.product_name , sales.product_id ,sales.order_date
96       FROM members
97       JOIN sales ON members.customer_id = sales.customer_id
98       JOIN menu ON menu.product_id= sales.product_id
99       where order_date < join_date
100      group by customer_id;
101
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ĪA

customer_id	join_date	product_name	product_id	order_date
B	2021-01-09	sushi	1	2021-01-04
A	2021-01-07	sushi	1	2021-01-01

```
104     # 8.  What is the total items and amount spent for each member before they became a member
105  ●    SELECT ms.customer_id , count(product_name) , sum(price)
106      FROM members ms
107      JOIN sales s ON ms.customer_id = s.customer_id
108      JOIN menu mu ON mu.product_id= s.product_id
109      WHERE order_date < join_date
110      GROUP BY  customer_id ;
...
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ĪA

customer_id	count(product_name)	sum(price)
B	3	40
A	2	25

```
113     # 9. If each $1 spent equates to 10 points and sushi has a 2x points multiplier
114         #how many points would each customer have?
115 •      SELECT sales.customer_id,
116 ⊖      CASE
117           WHEN menu.product_name = "sushi" THEN sum(price)*20
118           WHEN menu.product_name <> "sushi" THEN sum(price)*10
119           END AS points
120           FROM sales
121           JOIN menu  ON sales.product_id=menu.product_id
122           group by customer_id;
```

Result Grid | Filter Rows: [   ] | Export: | Wrap Cell Content:

customer_id	points
A	1520
B	740
C	360

```
121     # 10. In the first week after a customer joins the program (including their join date) they earn
122      # 2x points on all items, not just sushi - how many points do customer A and B have at the end of January
123 •      SELECT sales.customer_id, sum(price)*20
124           FROM sales JOIN members ON sales.customer_id=members.customer_id
125           JOIN menu  ON sales.product_id = menu.product_id
126           WHERE join_date<=order_date AND MONTH(order_date)=1
127           GROUP BY customer_id;
128
```

Result Grid | Filter Rows: [   ] | Export: | Wrap Cell Content:

customer_id	sum(price)*20
B	440
A	1020