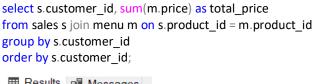
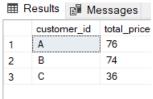
1 What is the total amount each customer spent at the restaurant?





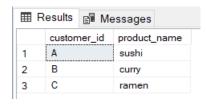
2 How many days has each customer visited the restaurant?

```
with customer(id, dayss) as
(select s.customer_id, s.order_date as dates
from sales s
group by s.customer_id, s.order_date)

select id, count(*) as no_of_days
from customer
group by id;

Results Messages
id no_of_days
1 A 4
2 B 6
3 C 2
```

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



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

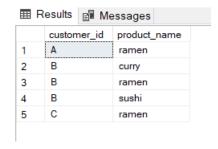
```
with purchased(product_name, total_count)
as (select m.product_name, count(s.product_id) as total_count
from sales s join menu m on s.product_id = m.product_id
group by m.product_name)

select top 1 * from purchased
order by total_count desc

### Results ### Messages

product_name total_count
1 ramen 8
```

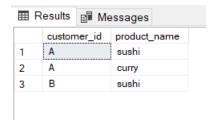
5 Which item was the most popular for each customer?



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

```
with purchased(customer_id, product_name, order_date)
as ( select s.customer_id, m.product_name, s.order_date
    from sales s join menu m
    on s.product_id = m.product_id join members mb on s.customer_id= mb.customer_id
    where s.order_date >= mb.join_date)
select customer_id, product_name
```

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



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

```
with purchased(customer_id, product_name, price)
as ( select s.customer_id, m.product_name, m.price
from sales s join menu m on s.product_id = m.product_id join members mb on s.customer_id=
mb.customer_id
```

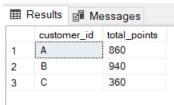
```
where s.order_date < mb.join_date)

select customer_id, sum(price)
from purchased p
group by customer_id

Results Messages

customer_id amount_spent
1 A 25
2 B 40
```

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



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?

```
when m.product_name = 'ramen' then m.price*10
                                         end) points
from sales s join menu m on s.product_id = m.product_id
      join members mb on s.customer_id= mb.customer_id
where s.order_date < @date1 and ( s.order_date < mb.join_date or s.order_date >= DATEADD(day, 7,
join_date))
union all
select s.customer_id, m.price*20
from sales s join menu m on s.product_id = m.product_id
      join members mb on s.customer_id= mb.customer_id
where s.order_date >=mb.join_date and s.order_date < DATEADD(day, 7, join_date))
select customer_id, sum(points)
from points
group by customer_id;
customer_id
                 total_points
                 1370
     Α
```

В

2

820