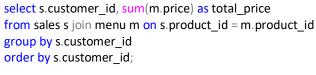
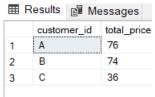
#### 1 What is the total amount each customer spent at the restaurant?





### 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)

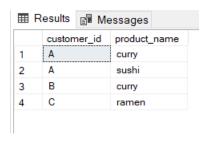
select id, count(*) as no_of_days
from customer
group by id;

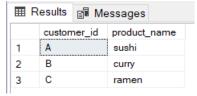
Results Messages
id no_of_days
1 A 4
2 B 6
3 C 2
```

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

#### #######

An expression of non-boolean type specified in a context where a condition is expected, near ','. Msg 156, Level 15, State 1, Line 6 Incorrect syntax near the keyword 'group'.





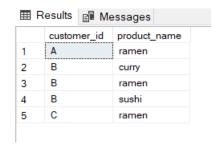
# 4 What is the most purchased item on the menu and how many times was it purchased by all customers?

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



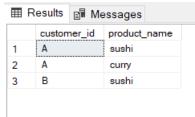
#### 5 Which item was the most popular for each customer?



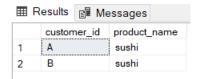
#### 6 Which item was purchased first by the customer after they became a member?



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



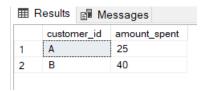
select customer\_id, product\_name
from purchased p
where rank = 1



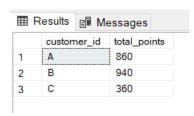
### 8 What is the total items and amount spent for each member before they became a member?

```
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)</pre>
```

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



## 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?

```
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
     Α
                 1370
```

В

2

820