--1. What is the total amount each customer spent on zomato?

```
select a.userid, sum(b.price) total_amt_spent
from sales a
inner join product b
on a.product_id = b.product_id
group by userid
order by total_amt_spent desc;
```

Output

userid integer	total_amt_spent bigint
1	5230
3	4570
2	2510

--2. How many days has each customer visited zomato?
```
select userid, count(distinct created_date) distinct_days
from sales group by userid;
```

Output

userid integer	distinct_days bigint
1	7
2	4
3	5

--3. What was the first product purchased by each customer?
```
select * from
(select *, rank() over (partition by userid order by created_date) rnk from
sales) a where rnk = 1;
```

Output

userid integer	created_date date	product_id integer	rnk bigint
1	2016-03-11	1	1
2	2017-09-24	1	1
3	2016-11-10	1	1

--4. What is the most purchased item on the menu and how many times was it
purchased by all customers?
```
select userid, count(product_id), product_id from sales where product_id =
(select product_id from sales group by product_id order by count(product_id)
desc limit 1)
group by userid, product_id;
```

Output

userid integer	count bigint	product_id integer
1	3	2
2	1	2
3	3	2

--5. Which item was the most popular for each customer?
```
select * from
(select *, rank() over (partition by userid order by counnt desc) rnk from
(select userid, product_id, count(product_id) counnt from sales group by
userid, product_id) a) b
where rnk = 1;
```

Output

userid integer	product_id integer	counnt bigint	rnk bigint
1	2	3	1
2	3	2	1
3	2	3	1