fingerTips

Case Study

Swiggy Data Analysis

Solutions

Total Marks: 80

*Easy Level: (5*4=20)*

1) Details of customers whose name starts with 'A' and have gmail id

```
select *
from users1
where name like 'A%' and email like '%@gmail.com';
```

2) Details of customers containing 3 times 5 in password

```
select *
from users1
where password like '%5%5%5%';
```

3) Name & address of North Indian restaurant which is situated in 456 Elm St

```
select r_name, cuisine, address
from restaurants_1
where cuisine='North Indian' and address='456 Elm St';
```

4) Names of restaurant which is either Italian or situated in '433 Oak St'

```
select r_name, cuisine, address
from restaurants_1
where cuisine='Italian' or address='433 Oak St';
```

5) How many orders were palced with amount 650 or more

```
select count(*)
from orders1
where amount>=650;
```

*INTERMEDIATE LEVEL: (6*5=30)*

6) Find details of those customers who have never ordered

```
select *
from users1
where user_id not in (select user_id from orders1);
```

7) Find out details of restaurants having sales greater than x (1000 or any amount)

```
select *
from restaurants_1
where r_id in (select r_id from orders1 group by r_id
having sum(amount)>1000);
```

8) Show all order details for a particular customer ('Vartika')

```
select *
from users1 u join orders1 o
on u.user_id=o.user_id
where u.name='Vartika';
```

9) What is the average Price per dish

```
select f.f_id, f.f_name, avg(m.price) as avg_price
from food f join menu_1 m
on f.f_id=m.f_id
group by f.f_id;
```

10) Find out number of times each customer ordered food from each restaurants

```
select o.r_id, r.r_name, o.user_id, count(o.order_id)
from restaurants_1 r join orders1 o
on r.r_id=o.r_id
group by o.r_id, o.user_id
order by o.r_id, o.user_id;
```

11) Find the top restaurant in terms of the number of orders for a given month

```
select o.r_id, r.r_name, count(o.order_id) as counts
from restaurants_1 r join orders1 o
on r.r_id=o.r_id
group by o.r_id
order by counts desc
limit 1;
```

12) Who is most loyal customer of dominos?

```
select r.r_name, u.name, u.email, count(o.order_id)
as no_of_orders
from restaurants_1 r join orders1 o on r.r_id=o.r_id
join users1 u on o.user_id=u.user_id
where r.r_name='dominos'
group by o.r_id, o.user_id
order by o.r_id, o.user_id desc
limit 1;
```

High Level: (6*5=30)

13) What is the favorite food of each customer?

```
with t1 as
(select o.user_id, f.f_id, f.f_name, f.type, count(*) as
no_of_times,
rank() over(partition by o.user_id order by count(*)
desc) as rank_
from food f join orderdetails od on f.f_id=od.f_id
join orders1 o on od.order_id=o.order_id
group by user_id, f_id
```

```
order by user_id)

select user_id, f_id, f_name, type, no_of_times
from t1
where rank_=1;
```

14) What is the favorite food of each customer along with customer details

```
with t1 as
(select u.*, f.f_id, f.f_name, f.type, count(*) as no_of_times,
rank() over(partition by o.user_id order by count(*) desc) as rank_
from food f join orderdetails od on f.f_id=od.f_id
join orders1 o on od.order_id=o.order_id
join users1 u on o.user_id=u.user_id
group by user_id, f_id
order by user_id)

select user_id, name, email, password, f_id, f_name, type, no_of_times
from t1
where rank_=1;
```

15) For each restaurant find out user who has ordered maximum number of times

```
with t1 as
(select o.r_id, r.r_name, o.user_id, count(o.order_id) as no_of_orders
```

```
from restaurants_1 r join orders1 o
on r.r_id=o.r_id
group by o.r_id, o.user_id
order by o.r_id, o.user_id),

t2 as
(select *,
rank() over(partition by r_id order by no_of_orders desc) as rank_
from t1)

select r_name, user_id, no_of_orders from t2
where rank_=1;
```

16) Find out restaurants with max repeated customers

```
with t1 as
(select o.r_id, r.r_name, o.user_id, count(o.order_id) as no_of_orders
from restaurants_1 r join orders1 o
on r.r_id=o.r_id
group by o.r_id, o.user_id
order by o.r_id, o.user_id),

t2 as
(select *,
rank() over(partition by r_id order by no_of_orders desc) as rank_1
from t1),
```

```
t3 as
(select distinct r_name, no_of_orders,
rank() over(order by no_of_orders desc) as rank_2
from t2
where rank_1=1)

select r_name, no_of_orders
from t3
where rank_2=1;
```

17) Find out restaurants with max repeated customers and details of that customer

```
with t1 as
(select o.r_id, r.r_name, u.*, count(o.order_id) as no_of_orders
from restaurants_1 r join orders1 o on r.r_id=o.r_id
join users1 u on u.user_id=o.user_id
group by o.r_id, o.user_id
order by o.r_id, o.user_id),

t2 as
(select *,
rank() over(partition by r_id order by no_of_orders desc) as rank_1
from t1),

t3 as
```

```
(select distinct *,
rank() over(order by no_of_orders desc) as rank_2
from t2
where rank_1=1)

select r_name, user_id, name, email, password, no_of_orders
from t3
where rank_2=1;
```