

fingerTips

Module-7

Sub-queries in SQL

1) Sub-query

A sub-query is a query that is embedded within another SQL statement, such as a SELECT, INSERT, UPDATE, or DELETE statement. A sub-query is enclosed in parentheses and typically returns a single value or a set of values that are used by the outer query to complete its operation.

Sub-queries are commonly used to filter data based on specific conditions, to perform calculations or aggregations, to perform nested queries, or to retrieve data from multiple tables.

We will understand Sub-queries by answering some interesting questions.

2) Find name and email of all those users who have yahoo.com id and are customers of Swiggy but have never ordered anything from it.

```
select name, email
from users1
where user_id not in (select user_id from orders1)
and email regexp ('@yahoo.com');
```

3) Find details of user who have spent maximum amount on food on some particular day.

```
select *
from users1
where user_id=(select user_id from orders1 where
amount=(Select max(amount) from orders1));
```

4) Find name & email id of gmail user who haven given rating 1 on Swiggy.

```
select email
from users1
where user_id in (select user_id from orders1 where
restaurant_rating = 1) and email regexp ('@yahoo.com');
```

5) Find details of highest price food ordering restaurant

```
select *  
from restaurants_1  
where r_id=(select r_id from menu_1 where price=(Select  
max(price) from menu_1));
```

6) Name of food offered with minimum price

```
select f_name  
from food  
where f_id=(select f_id from menu_1 where price=(Select  
min(price) from menu_1));
```

7) Menu id of lowest price food offered.

```
select menu_id  
from menu_1  
where price=(Select min(price) from menu_1);
```

8) Which cuisine is offering food with lowest price?

```
select cuisine  
from restaurants_1  
where r_id=(select r_id from menu_1 where price=(Select  
min(price) from menu_1));
```

9) Menu id of highest price food offered.

```
select menu_id  
from menu_1 where price=(Select max(price) from menu_1);
```

10) Details of food offered with maximum price

```
select *  
from food  
where f_id=(select f_id from menu_1 where price=(Select  
max(price) from menu_1));
```

*11) Find address, city, state, phone of restarant where food
with minimum price is being offered.*

```
select address, city, state, phone
```

```
from restaurants_1  
where r_id=(select r_id from menu_1 where price=(Select  
min(price) from menu_1));
```