SQL_Portfolio_Project_Junaid_Iqbal.sql

```sql
USE swiggy_data;
SET sql_safe_updates = 0;

-- Creating and inserting data into the users table --

CREATE TABLE users (user_id INT,
name VARCHAR(255),
email VARCHAR(255),
password VARCHAR(255));

INSERT INTO users (user_id, name, email, password) VALUES
(1, 'Nitish', 'nitish@gmail.com', 'p252h'),
(3, 'Vartika', 'vartika@gmail.com', '9hu7j'),
(4, 'Ankit', 'ankit@gmail.com', 'lkko3'),
(5, 'Neha', 'neha@gmail.com', '3i7qm'),
(6, 'Anupama', 'anupama@gmail.com', '46rdw2'),
(7, 'Rishabh', 'rishabh@gmail.com', '4sw123');

-- Creating and inserting values in restaurants table --

CREATE TABLE restaurants ( r_id INT,
r_name VARCHAR(255),
cuisine VARCHAR(255));

INSERT INTO restaurants VALUES
(1,'dominos','Italian'),
(2,'kfc','American'),
(3,'box8','North Indian'),
(4,'Dosa Plaza','South Indian'),
(5,'China Town', 'Chinese');

-- Creating and inserting values into Food table --

CREATE TABLE food (f_id INT,
f_name VARCHAR(255),
type VARCHAR(255));

INSERT INTO food VALUES
(1, 'Non-veg Pizza','Non-veg'),
(2, 'Veg Pizza', 'Veg'),
(3, 'Choco Lava cake', 'Veg'),
(4, 'Chicken Wings', 'Non-veg'),
(5, 'Chicken Popcorn', 'Non-veg'),
(6, 'Rice Meal', 'Veg'),
(7, 'Roti meal', 'Veg'),
(8, 'Masala Dosa', 'Veg'),
(9, 'Rava Idli', 'Veg'),
(10,'Schezwan Noodles', 'Veg'),
```

```sql
(11,'Veg Manchurian','Veg');

-- Creating and inserting values into menu table --

CREATE TABLE menu (menu_id INT,
r_id INT,
f_id INT,
price INT);

INSERT INTO menu (menu_id, r_id, f_id, price) VALUES
(1, 1, 1, 450),
(2, 1, 2, 400),
(3, 1, 3, 100),
(4, 2, 3, 115),
(5, 2, 4, 230),
(6, 2, 5, 300),
(7, 3, 3, 80),
(8, 3, 6, 160),
(9, 3, 7, 140),
(10, 4, 6, 230),
(11, 4, 8, 180),
(12, 4, 9, 120),
(13, 5, 6, 250),
(14, 5, 10, 220),
(15, 5, 11, 180);

-- Creating and inserting values into order table --

CREATE TABLE orders (order_id INT,
user_id INT,
r_id INT,
amount INT,
date DATE,
partner_id INT,
delivery_time INT,
delivery_rating INT,
restaurant_rating INT);

INSERT INTO orders (order_id, user_id, r_id, amount, date, partner_id,
delivery_time, delivery_rating, restaurant_rating) VALUES
(1001, 1, 1, 550, '2022-05-10', 1, 25, 5, 3),
(1002, 1, 2, 415, '2022-05-26', 1, 19, 5, 2),
(1003, 1, 3, 240, '2022-06-15', 5, 29, 4, NULL),
(1004, 1, 3, 240, '2022-06-29', 4, 42, 3, 5),
(1005, 1, 3, 220, '2022-07-10', 1, 58, 1, 4),
(1006, 2, 1, 950, '2022-06-10', 2, 16, 5, NULL),
(1007, 2, 2, 530, '2022-06-23', 3, 60, 1, 5),
(1008, 2, 3, 240, '2022-07-07', 5, 33, 4, 5),
(1009, 2, 4, 300, '2022-07-17', 4, 41, 1, NULL),
(1010, 2, 5, 650, '2022-07-31', 1, 67, 1, 4),
(1011, 3, 1, 450, '2022-05-10', 2, 25, 3, 1),
```

```sql
(1012, 3, 4, 180, '2022-05-20', 5, 33, 4, 1),
(1013, 3, 2, 230, '2022-05-30', 4, 45, 3, NULL),
(1014, 3, 2, 230, '2022-06-11', 2, 55, 1, 2),
(1015, 3, 2, 230, '2022-06-22', 3, 21, 5, NULL),
(1016, 4, 4, 300, '2022-05-15', 3, 31, 5, 5),
(1017, 4, 4, 300, '2022-05-30', 1, 50, 1, NULL),
(1018, 4, 4, 400, '2022-06-15', 2, 40, 3, 5),
(1019, 4, 5, 400, '2022-06-30', 1, 70, 2, 4),
(1020, 4, 5, 400, '2022-07-15', 3, 26, 5, 3),
(1021, 5, 1, 550, '2022-07-01', 5, 22, 2, NULL),
(1022, 5, 1, 550, '2022-07-08', 1, 34, 5, 1),
(1023, 5, 2, 645, '2022-07-15', 4, 38, 5, 1),
(1024, 5, 2, 645, '2022-07-21', 2, 58, 2, 1),
(1025, 5, 2, 645, '2022-07-28', 2, 44, 4, NULL);

-- Creating and inserting values into delivery_partners table --

CREATE TABLE delivery_partners (
partner_id INT,
partner_name VARCHAR(50)
);

INSERT INTO delivery_partners (partner_id, partner_name) VALUES
(1, 'Suresh'),
(2, 'Amit'),
(3, 'Lokesh'),
(4, 'Kartik'),
(5, 'Gyandeep');

-- Creating and inserting values into order_details table --

CREATE TABLE order_details (
id INT,
order_id INT,
f_id INT
);

INSERT INTO order_details (id, order_id, f_id) VALUES
(1, 1001, 1),
(2, 1001, 3),
(3, 1002, 4),
(4, 1002, 3),
(5, 1003, 6),
(6, 1003, 3),
(7, 1004, 6),
(8, 1004, 3),
(9, 1005, 7),
(10, 1005, 3),
(11, 1006, 1),
(12, 1006, 2),
(13, 1006, 3),
```

```sql
(14, 1007, 4),
(15, 1007, 3),
(16, 1008, 6),
(17, 1008, 3),
(18, 1009, 8),
(19, 1009, 9),
(20, 1010, 10),
(21, 1010, 11),
(22, 1010, 6),
(23, 1011, 1),
(24, 1012, 8),
(25, 1013, 4),
(26, 1014, 4),
(27, 1015, 4),
(28, 1016, 8),
(29, 1016, 9),
(30, 1017, 8),
(31, 1017, 9),
(32, 1018, 10),
(33, 1018, 11),
(34, 1019, 10),
(35, 1019, 11),
(36, 1020, 10),
(37, 1020, 11),
(38, 1021, 1),
(39, 1021, 3),
(40, 1022, 1),
(41, 1022, 3),
(42, 1023, 3),
(43, 1023, 4),
(44, 1023, 5),
(45, 1024, 3),
(46, 1024, 4),
(47, 1024, 5),
(48, 1025, 3),
(49, 1025, 4),
(50, 1025, 5);


SELECT * FROM users;
SELECT * FROM restaurants;
SELECT * FROM orders;
SELECT * FROM order_details;
SELECT * FROM menu;
SELECT * FROM food;
SELECT * FROM delivery_partners;

-- Question 1: Find customers who have never ordered --
SELECT
u.user_id,
u.name
```

```sql
FROM
users u
LEFT JOIN
orders o ON u.user_id = o.user_id
WHERE
o.user_id IS NULL;

-- Question 2: What is the average price per dish? --
SELECT
f. f_name,
AVG (m. price) AS average_price
FROM
menu m
JOIN
food f ON m.f_id = f.f_id
GROUP BY
f.f_name;

-- Question 3: Find the top restaurant in terms of the number of orders for a
given month --
SELECT
r. r_name,
COUNT( o.order_id) AS Total_Orders
FROM
restaurants r
JOIN
orders o ON r.r_id = o.r_id
WHERE
MONTH(o.date) = 7 AND YEAR(o.date) = 2022
GROUP BY
r.r_name
ORDER BY
Total_Orders DESC
LIMIT 1;

-- Question 4: What are the restaurants with monthly sales greater than x for? --
SELECT
r. r_name,
SUM(o. amount) AS 'Monthly_Sales'
FROM
orders o
JOIN
restaurants r ON o. r_id = r. r_id
WHERE
MONTH(o. date) = 7 AND YEAR(o. date) = 2022
GROUP BY
r.r_name
HAVING
Monthly_Sales > 500
ORDER BY
Monthly_Sales DESC;
```

```sql
-- Question 5: Show all orders with order details for a particular customer in a
particular date range --
SELECT
o.order_id,
o.date,
food.f_name,
menu.price
FROM
orders o
JOIN
order_details od ON o.order_id = od.order_id
JOIN
food ON od. f_id = food. f_id
JOIN
menu ON food .f_id = menu.f_id
WHERE
o.user_id = 1 AND o.date BETWEEN '2022-06-11' AND '2022-07-20';

-- Question 6: Find restaurant with max repeated customers? --
SELECT
r. r_name,
o. user_id,
COUNT(o. user_id) AS repeat_count
FROM
orders o
JOIN
restaurants r ON o.r_id = r.r_id
GROUP BY
r. r_name, o. user_id
ORDER BY
repeat_count DESC
LIMIT 1;

-- Question 7: What is the month over month revenue growth of Swiggy? --
SELECT
MONTH(date) AS 'month',
YEAR(date) AS 'year',
SUM(amount) AS 'monthly_revenue'
FROM
orders
GROUP BY
YEAR(date), MONTH(date)
ORDER BY
year, month;

-- Question 8: What is the customers favourite food? --
SELECT
u. name, f. f_name, COUNT(od .f_id) AS order_count
FROM
users u
```

```
JOIN
orders o ON u.user_id = o.user_id
JOIN
order_details od ON o.order_id = od.order_id
JOIN
food f ON od.f_id = f.f_id
GROUP BY
u. name, f. f_name
ORDER BY
order_count DESC
LIMIT 1;


-- Question 9: Find the most loyal customer for all restaurant? --
SELECT
r. r_name, u. name, COUNT(o.order_id) AS order_count
FROM
orders o
JOIN
users u ON o.user_id = u.user_id
JOIN
restaurants r ON o.r_id = r .r_id
GROUP BY
r. r_name, u. name
ORDER BY
order_count DESC
LIMIT 1;


-- Question 10: What is the month-over-month revenue growth of a restaurant? --
SELECT
r. r_name,
MONTH(o. date) AS month,
YEAR(o. date) AS year,
SUM(o. amount) AS monthly_revenue
FROM
orders o
JOIN
restaurants r ON o.r_id = r .r_id
WHERE
r. r_name = 'Dosa Plaza'
GROUP BY
YEAR(o. date), MONTH(o. date)
ORDER BY
year, month;



-- The End --
```