CREATE TABLE user

(`user\_id` int, `name` varchar(8), `email` varchar(18), `password` varchar(6))

;

INSERT INTO user

(`user\_id`, `name`, `email`, `password`)

VALUES

(1, 'Nitish', 'nitish@gmail.com', 'p252h'),

(2, 'Khushboo', 'khushboo@gmail.com', 'hxn9b'),

(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')

;

CREATE TABLE restaurant

(`r\_id` int, `r\_name` varchar(10), `cuisine` varchar(12))

;

INSERT INTO restaurant

(`r\_id`, `r\_name`, `cuisine`)

VALUES

(1, 'dominos', 'Italian'),

(2, 'kfc', 'American'),

(3, 'box8', 'North Indian'),

(4, 'Dosa Plaza', 'South Indian'),

(5, 'China Town', 'Chinese')

;

CREATE TABLE food

(`f\_id` int, `f\_name` varchar(16), `type` varchar(7))

;

INSERT INTO food

(`f\_id`, `f\_name`, `type`)

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'),

(11, 'Veg Manchurian', 'Veg')

;

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)

;

CREATE TABLE delivery\_partner

(`partner\_id` int, `partner\_name` varchar(8))

;

INSERT INTO delivery\_partner

(`partner\_id`, `partner\_name`)

VALUES

(1, 'Suresh'),

(2, 'Amit'),

(3, 'Lokesh'),

(4, 'Kartik'),

(5, 'Gyandeep')

;

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),

(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)

;

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` varchar(2))

;

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 00:00:00', 1, 25, 5, '3'),

(1002, 1, 2, 415, '2022-05-11 00:00:00', 1, 19, 5, '2'),

(1003, 1, 3, 240, '2022-05-12 00:00:00', 5, 29, 4, 'NA'),

(1004, 1, 3, 240, '2022-05-13 00:00:00', 4, 42, 3, '5'),

(1005, 1, 3, 220, '2022-05-14 00:00:00', 1, 58, 1, '4'),

(1006, 2, 1, 950, '2022-05-15 00:00:00', 2, 16, 5, 'NA'),

(1007, 2, 2, 530, '2022-05-16 00:00:00', 3, 60, 1, '5'),

(1008, 2, 3, 240, '2022-05-17 00:00:00', 5, 33, 4, '5'),

(1009, 2, 4, 300, '2022-05-18 00:00:00', 4, 41, 1, 'NA'),

(1010, 2, 5, 650, '2022-05-19 00:00:00', 1, 67, 1, '4'),

(1011, 3, 1, 450, '2022-05-20 00:00:00', 2, 25, 3, '1'),

(1012, 3, 4, 180, '2022-05-21 00:00:00', 5, 33, 4, '1'),

(1013, 3, 2, 230, '2022-05-22 00:00:00', 4, 45, 3, 'NA'),

(1014, 3, 2, 230, '2022-05-23 00:00:00', 2, 55, 1, '2'),

(1015, 3, 2, 230, '2022-05-24 00:00:00', 3, 21, 5, 'NA'),

(1016, 4, 4, 300, '2022-05-25 00:00:00', 3, 31, 5, '5'),

(1017, 4, 4, 300, '2022-05-26 00:00:00', 1, 50, 1, 'NA'),

(1018, 4, 4, 400, '2022-05-27 00:00:00', 2, 40, 3, '5'),

(1019, 4, 5, 400, '2022-05-28 00:00:00', 1, 70, 2, '4'),

(1020, 4, 5, 400, '2022-05-29 00:00:00', 3, 26, 5, '3'),

(1021, 5, 1, 550, '2022-05-30 00:00:00', 5, 22, 2, 'NA'),

(1022, 5, 1, 550, '2022-05-31 00:00:00', 1, 34, 5, '1'),

(1023, 5, 2, 645, '2022-06-01 00:00:00', 4, 38, 5, '1'),

(1024, 5, 2, 645, '2022-06-02 00:00:00', 2, 58, 2, '1'),

(1025, 5, 2, 645, '2022-06-03 00:00:00', 2, 44, 4, 'NA')

;

1. Find Customer who have never order

SELECT DISTINCT(name)

FROM user

WHERE user\_id NOT IN (SELECT user\_id FROM orders);

1. Average price/dish

SELECT m.f\_id, f\_name, AVG(price) AS avg\_price

FROM menu m

JOIN food f

ON m.f\_id=f.f\_id

GROUP BY m.f\_id;

1. Find top restaurant in terms of number of orders for a given month

SELECT o.r\_id,r.r\_name,count(order\_id) as no\_of\_orders,MONTHNAME(date) as Month

FROM orders o

JOIN restaurant r

ON o.r\_id=r.r\_id

WHERE MONTHNAME(date) like "july"

GROUP BY o.r\_id

ORDER BY COUNT(order\_id) DESC

LIMIT 1

;

1. Restaurants with monthly sales > x for

SELECT MONTHNAME(date) as month,o.r\_id, r.r\_name,SUM(amount) as sale

FROM orders o

JOIN restaurant r

ON o.r\_id=r.r\_id

WHERE MONTHNAME(date) like "may"

GROUP BY o.r\_id

HAVING sale >500;

1. Show all orders with order details for a particular customer in particular date range

(specifically, we want to show order details lets say name of the dish ,Restaurant name for a particular customer lets say ‘Nitish” from 1 june 2022 to 30 july 2022)

SELECT o.order\_id,r.r\_name,f.f\_name

FROM orders o

JOIN user u ON o.user\_id = u.user\_id

JOIN order\_details od ON o.order\_id=od.order\_id

JOIN food f ON od.f\_id = f.f\_id

JOIN restaurant r ON o.r\_id = r.r\_id

WHERE date BETWEEN "2022-06-01" AND "2022-07-30"

AND name = "Nitish"

ORDER BY order\_id;

Note: Above queries include multiple joins(4).

1. Find restaurants with max repeated customers

SELECT a.r\_id,r.r\_name, count(\*) as Loyal\_customers from

(Select r\_id,user\_id,count(r\_id) as visits from orders o

Group by r\_id,user\_id

HAVING visits>1

) a

join restaurant r on a.r\_id=r.r\_id

group by a.r\_id

order by Loyal\_customers DESC

LIMIT 1

1. Month after month revenue growth of swiggy
2. Customer🡪 favorite food.

SELECT MONTHNAME(date) as month,r\_id, COUNT(order\_id) from orders

GROUP BY month, r\_id

ORDER BY Count(order\_id);

SELECT name , f\_name as favorite\_food,MAX(number\_of\_orders) from

(SELECT o.user\_id,u.name,od.f\_id,count(od.f\_id) as number\_of\_orders,f.f\_name

FROM orders o

JOIN order\_details od on o.order\_id=od.order\_id

JOIN user u on o.user\_id=u.user\_id

JOIN food f on od.f\_id = f.f\_id

GROUP BY o.user\_id,od.f\_Id

)a

GROUP BY user\_id