# Restaurant Sales Data AnalysisProject SQL +EXCEL

#### 2-Datasets

## 1)Order Data

Order ID
Customer Name
Restaurant ID
Order Date
Quantity of Items
Order Amount
Payment Mode
Delivery Time Taken (mins)
Customer Rating-Food
Customer Rating-Delivery

### 2) Restaurants Data

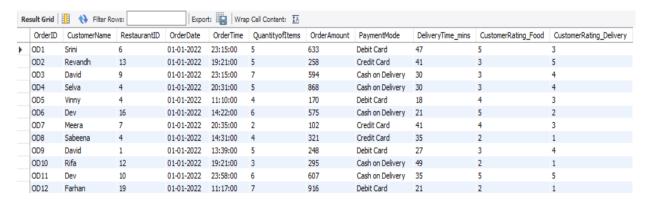
RestaurantID
RestaurantName
Cuisine
Zone Category

## **Questions with SQL Query**

create database sales;

use sales;

## select \* from orders;

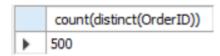


# select \* from restaurants;

Re	sult Grid	N Filter Rows:		Export:	Wrap Cell Content:
	RestaurantID	RestaurantName	Cuisine	Zone	Category
<b>-</b>	1	The Cave Hotel	Continental	Zone B	Pro
	2	SSK Hotel	North Indian	Zone D	Pro
	3	ASR Restaurant	South Indian	Zone D	Ordinary
	4	Win Hotel	South Indian	Zone D	Ordinary
	5	Denver Restaurant	Continental	Zone D	Pro
	6	Willies	French	Zone D	Pro
	7	AMN	North Indian	Zone D	Ordinary
	8	Oslo	French	Zone B	Ordinary
	9	Excel Restaurant	North Indian	Zone D	Ordinary
	10	Dave Hotel	South Indian	Zone A	Ordinary
	11	The Taste	French	Zone B	Pro
	12	Ruchi	Chinese	Zone B	Ordinary

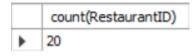
- -- QUESTIONS
- -- A.KPI's
- -- Total Orders

# select count(distinct(OrderID)) from orders;



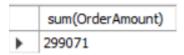
-- Total No.of restaurants

# select count(RestaurantID) from restaurants;



-- Total Sales

# select sum(OrderAmount) from orders;



-- Average delivery time

# select avg(DeliveryTime\_mins) from orders;



-- Average order value

## select avg(OrderAmount) from orders;

	avg(OrderAmount)
•	598.1420

-- Maximum order quantity

## select max(QuantityofItems) from orders;

	max(QuantityofItems)
•	7

-- Total Cuisines

## select count(distinct Cuisine) from restaurants;

	count(distinct Cuisine)
•	8

-- Date

## select distinct(OrderDate) from orders;

	OrderDate
•	01-01-2022

-- B.Which top 5 restaurant received the most orders?

select B.\*, dense\_rank() over (order by total\_orders desc) as rnk from (select A.RestaurantName, count(OrderID) as total\_orders from (select a.RestaurantID,a.OrderID,b.RestaurantName from orders a inner join restaurants b on a.RestaurantID=b.RestaurantID)A group by RestaurantID,RestaurantName)B limit 5;

	RestaurantName	total_orders	rnk
•	The Cave Hotel	32	1
	Ellora	32	1
	Chew Restaurant	31	2
	Willies	30	3
	Veer Restaurant	29	4

-- C.Which top 5 restaurant saw most sales?

select B.\*, rank() over (order by total\_sales DESC) AS rnk from (select A.RestaurantName, sum(OrderAmount) as total\_sales from (select a.RestaurantID,a.OrderAmount,b.RestaurantName from orders a inner join restaurants b on a.RestaurantID=b.RestaurantID)A group by RestaurantID,RestaurantName)B limit 5;

	RestaurantName	total_sales	rnk
•	Veer Restaurant	19168	1
	The Cave Hotel	18934	2
	Anand Restaurant	18589	3
	Willies	18324	4
	Ellora	17863	5

- -- D.When do customers order more in a day?
- -- Hourly trend line

SELECT hour(OrderTime) as order\_hours, COUNT(DISTINCT OrderID) as total\_orders from orders group by hour(OrderTime) order by hour(OrderTime);

	order_hours	total_orders
•	11	73
	12	41
	13	54
	14	99
	15	23
	17	20
	18	18
	19	31
	20	49
	21	31
	22	15
	23	46

-- E.Which is the most liked cuisines based on customer ratings?

select B.\*, dense\_rank() over (order by Ratings desc) from (select A.Cuisine,sum(CustomerRating\_Food) as Ratings from (select a.RestaurantID,a.CustomerRating\_Food,b.Restaurantname,b.Cuisine from orders a inner join restaurants b on a.RestaurantID=b.RestaurantID)A group by Cuisine)B limit 5;

	Cuisine	Ratings	dense_rank() over (order by Ratings desc)
•	North Indian	291	1
	Chinese	268	2
	French	232	3
	South Indian	225	4
	African	211	5

#### -- F.Which zone has the most sales?

select A.Zone,sum(OrderAmount) as total\_sales from (select a.RestaurantID,a.OrderAmount,b.Zone from orders a inner join restaurants b on a.RestaurantID=b.RestaurantID)A group by Zone;

	Zone	total_sales
•	Zone D	128163
	Zone C	53074
	Zone B	77001
	Zone A	40833

## -- G.% sales by category

select A.Category, sum(OrderAmount) as total\_sales,(sum(A.OrderAmount) / (select sum(OrderAmount) from orders)) \* 100 AS percentage from (select a.OrderAmount,b.Category from orders a inner join restaurants b on a.RestaurantID=b.RestaurantID)A group by Category;

	Category	total_sales	percentage
١	Pro	108753	36.3636
	Ordinary	190318	63.6364

-- H.Which restaurants are providing good delivery service?

select b.RestaurantName,avg(a.CustomerRating\_Delivery) as overall\_rating from orders a inner join restaurants b ON a.RestaurantID = b.RestaurantID group by b.RestaurantName order by overall\_rating desc limit 5;

	RestaurantName	overall_rating
•	The Cave Hotel	3.5000
	Dave Hotel	3.3500
	Win Hotel	3.2963
	ASR Restaurant	3.2174
	The Taste	3.1111