

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;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	OrderID	CustomerName	RestaurantID	OrderDate	OrderTime	QuantityofItems	OrderAmount	PaymentMode	DeliveryTime_mins	CustomerRating_Food	CustomerRating_Delivery
▶	OD1	Srini	6	01-01-2022	23:15:00	5	633	Debit Card	47	5	3
	OD2	Revandh	13	01-01-2022	19:21:00	5	258	Credit Card	41	3	5
	OD3	David	9	01-01-2022	23:15:00	7	594	Cash on Delivery	30	3	4
	OD4	Selva	4	01-01-2022	20:31:00	5	868	Cash on Delivery	30	3	4
	OD5	Vinny	4	01-01-2022	11:10:00	4	170	Debit Card	18	4	3
	OD6	Dev	16	01-01-2022	14:22:00	6	575	Cash on Delivery	21	5	2
	OD7	Meera	7	01-01-2022	20:35:00	2	102	Credit Card	41	4	3
	OD8	Sabeena	4	01-01-2022	14:31:00	4	321	Credit Card	35	2	1
	OD9	David	1	01-01-2022	13:39:00	5	248	Debit Card	27	3	4
	OD10	Rifa	12	01-01-2022	19:21:00	3	295	Cash on Delivery	49	2	1
	OD11	Dev	10	01-01-2022	23:58:00	6	607	Cash on Delivery	35	5	5
	OD12	Farhan	19	01-01-2022	11:17:00	7	916	Debit Card	21	2	1

select * from restaurants;

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
RestaurantID	RestaurantName	Cuisine	Zone	Category
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;

count(distinct(OrderID))
500

-- Total No.of restaurants

select count(RestaurantID) from restaurants;

count(RestaurantID)
20

-- Total Sales

select sum(OrderAmount) from orders;

sum(OrderAmount)
299071

-- Average delivery time

select avg(DeliveryTime_mins) from orders;

avg(DeliveryTime_mins)
30.5420

-- 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
▶	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