

Chaiology

SQL CASE STUDY

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Column Name

shop_id
shop_name
city
state
country

Column Name

Item_id
Item_name
Category
Price
Available

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Column Name

sale_id
shop_id
item_id
quantity
transaction_date

Column Name

rating_id
shop_id
customer_name
rating
review

Tables

Here i have use 4 tables in this study

- 1.Tea_Shops
- 2.Menu_Items
- 3.Sales
- 4.Ratings

1) Lists all tea shop details ?

QUERY

```
select * from tea_shops
```

OUTPUT

	Item_id	Item_name	Category	Price	Available
1	1	Masala Chai	Tea	30.00	1
2	2	Ginger Tea	Tea	35.00	1
3	3	Samosa	Snack	20.00	1
4	4	Bun Maskai	Snack	25.00	1
5	5	Gulab Jamun	Dessert	40.00	1
6	6	Kulhad Chai	Tea	50.00	1



2) Find Menu Items Available in the Shop ?

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QUERY

```
select  
    item_name  
  from Menu_items  
 where Available <> 0
```

OUTPUT

	item_name
1	Masala Chai
2	Ginger Tea
3	Samosa
4	Bun Maska
5	Gulab Jamun
6	Kulhad Chai



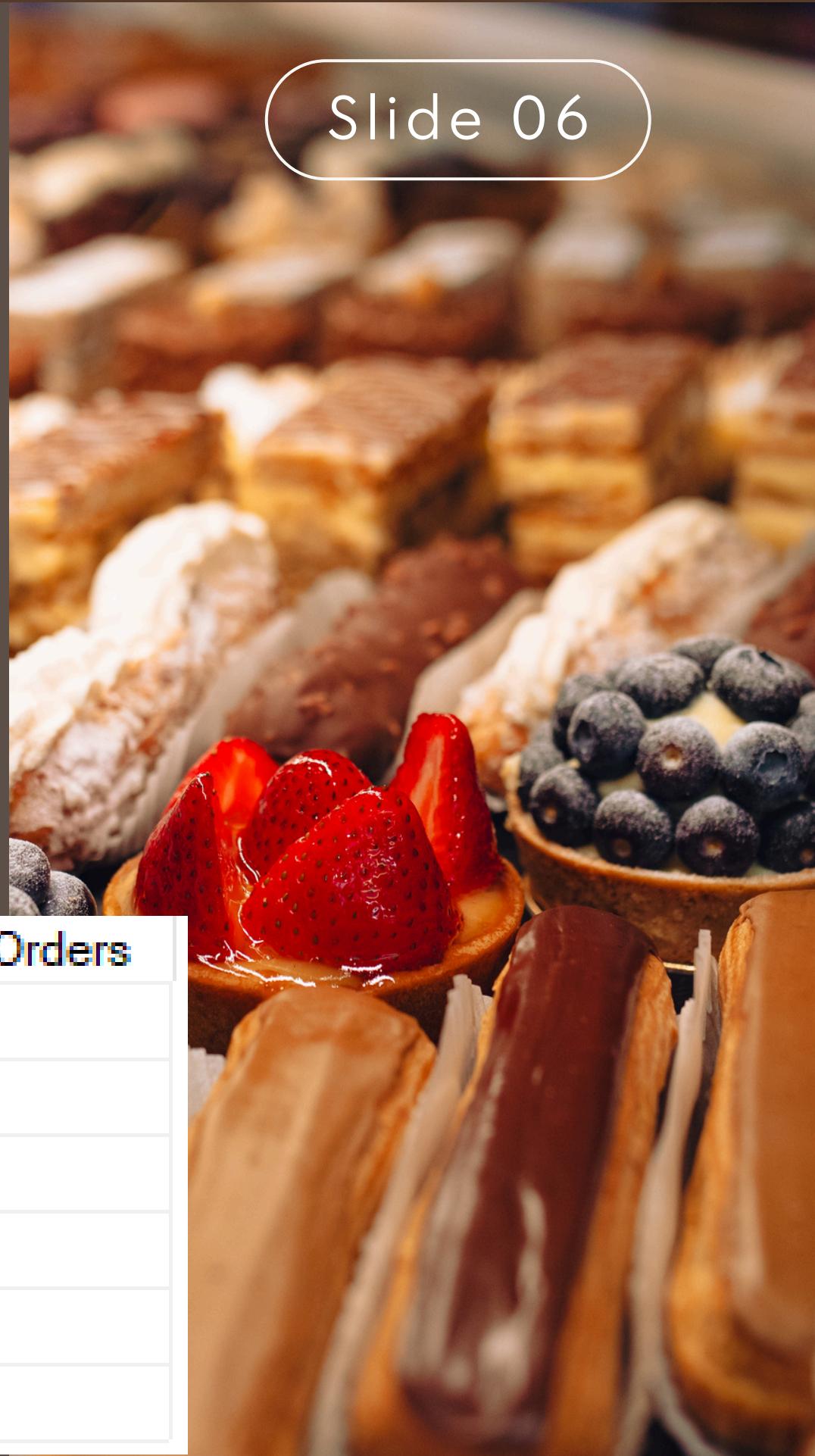
3) Find the Total Number of Orders for Each Menu Item ?

QUERY

```
select  
    Item_name,  
    count(s.Item_id)as Total_Orders  
from sales s  
    left join menu_items mi  
        on s.item_id = mi.item_id  
group by item_name
```

OUTPUT

	Item_name	Total_Orders
1	Bun Maska	2
2	Ginger Tea	2
3	Gulab Jamun	2
4	Kulhad Chai	1
5	Masala Chai	1
6	Samosa	2



4) Find the Total Revenue Generated by Each Shop in different Locations ?

QUERY

```
select
    city,
    sum(s.quantity*mi.Price) as Total_revenue
from sales s
    left join menu_items mi
        on s.item_id = mi.item_id
    left join tea_shops t
        on s.shop_id = t.shop_id
group by city
```

OUTPUT

	city	Total_revenue
1	Bangalore	395.00
2	Chennai	500.00
3	Delhi	490.00
4	Mumbai	1465.00

5) Find the Best-Selling Item ?

QUERY

```
select top 1  
    mi.item_name,  
    sum(s.quantity) as Total_quantity  
from sales s  
left join menu_items mi  
    on s.item_id = mi.item_id  
group by mi.item_name  
order by Total_quantity desc
```



OUTPUT

	Item_name	Total_quantity
1	Samosa	21

6) Count the Total Number of Ratings for Each Shop ?

QUERY

```
select  
    t.shop_id,  
    t.city ,  
    count(r.shop_id) as totalratings  
from ratings r  
left join tea_shops t  
    on r.shop_id = t.shop_id  
group by t.shop_id,t.city
```

OUTPUT

	shop_id	city	totalratings
1	1	Mumbai	6
2	2	Delhi	4
3	3	Bangalore	5
4	4	Chennai	5



7) List All Shops with an Average Rating Above 4.5 ?

QUERY

```
select  
    r.shop_id,  
    t.city,  
    avg(r.rating) as avg_rating  
from ratings r  
    join Tea_Shops t  
        on r.shop_id = t.shop_id  
group by r.shop_id,t.city  
    having avg(r.rating)>4.5
```

OUTPUT

	shop_id	city	avg_rating
1	1	Mumbai	4.533333
2	3	Bangalore	4.620000
3	4	Chennai	4.520000

8) Find reviews where customers used the word "amazing" for a shop in Bangalore ?

QUERY

```
select
    t.shop_id,
    t.city,
    r.review
from ratings r
left join Tea_Shops t
    on r.shop_id = t.shop_id
where r.review like '%amazing%'
    and t.city ='Bangalore'
```

OUTPUT

	shop_id	city	review
1	3	Bangalore	Kulhad Chai was amazing!



Takeaway

- **Looking at details:** Getting specific information about your shops, items, and customers.
- **Connecting the dots:** Linking different pieces of information together, like sales to specific items, or ratings to shops.
- **Finding totals and averages:** Quickly summarizing numbers to see what's popular or how things are performing.
- **Spotting trends:** Identifying best-selling items, busiest days, or customer opinions.
- **Answering specific questions:** Using filters to find exact information, like reviews about a certain topic or shops with high ratings.



thank You