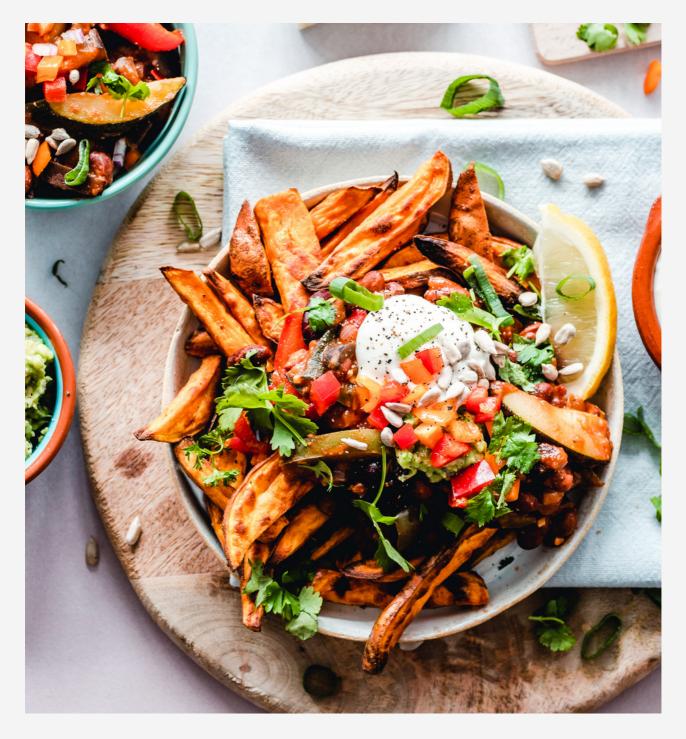
Restaurant Operations Analysis case study







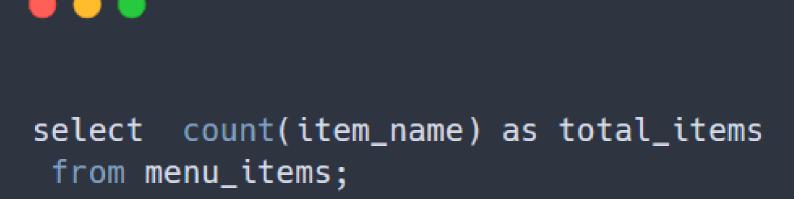




Situation: I have been hired as Data analyst for the taste of the world cafe
A restaurant that has diverse menu offerings & serves generous portion.

I have dig into the customer data to see which menu items doing well/not well & what th the top customers seem to like best

write a Query to find total No of items available at Menu



what are the least & most expensive items on menu?

```
select item_name , price as
most_expensive_price from menu_items
order by 2 desc
limit 1;

select item_name , price as
least_expensive_price from menu_items
order by 2
limit 1;
```

How many Itelian Dishes are on menu? what are the least & most expensive italian dishes on menu?

```
select count(item_name) as total_items
from menu_items
where category = 'italian' ;
select * from menu_items
where category = 'italian'
order by price desc
limit 1;
select * from menu_items
where category = 'italian'
order by price
limit 1;
```

How Many dishes are in each category? what is the average dish price within each category?

```
select category , count(item_name) as
total_dishes , round(avg(price),2) as
avg_price from menu_items
group by 1;
```

what is the date range of the table?

```
select min(order_date) as order_start_date
, max(order_date) as order_end_date from
order_details;
```

How Many orders were made within this date range?

```
select count( distinct order_id) as
total_orders from order_details;
```

which orders had the most number of items?

```
• • •
```

```
select order_id , count(item_id) as orders
from order_details
group by 1
order by orders desc;
```

how many orders having more than 12 items??

```
select count(order_id) as num_orders from
(select order_id , count(item_id) as orders
from order_details
group by 1
having orders > 12 ) as orders;
```

what were the least & most ordered items? what categories where they in?

```
select m.item_name , m.category,
count(order_id) as most_orderd_items
from menu_items m
right join order_details o on
m.menu_item_id = o.item_id
group by 1 ,2
order by 3 desc
limit 1;
select m.item_name , m.category ,
count(order_id) as least_orderd_items
from menu_items m
right join order_details o on
m.menu_item_id = o.item_id
group by 1, 2
order by 3
limit 1;
```

what are the top 5 orders that spent the Most Money?

```
select d.order_id , round(sum(m.price),0)
as Most_spending from order_details d
left join menu_items m on m.menu_item_id
= d.item_id
group by 1
order by 2 desc
limit 5;
```

view the details of the top 5 highest spend orders? what insights can you gather from the result?

```
select d.order_id , m.category ,
round(sum(m.price),0) as Most_spending from
order_details d
left join menu_items m on m.menu_item_id
= d.item_id
group by 1,2
order by 3 desc
limit 5
```

KEY INSIGHTS:

- Total 35 food items available at Menu Card .
- Shrimp Scampi food item was most expensive item.
- Edamame was least expensive food item from menu card.
- Total 9 italian food dishes was available.
- Shrimp scampi most expensive italian food while speghetti least expensive italian food.
- Total 5370 orders were made between order start date 1//23 to order end date 3/9/23.
- Hamburger from american category is most orderd item

KEY INSIGHTS:

- Chicken Tacos is the least Expensive Item from Mexican food category
- Italian Food is the most Expensive Category amongst all categories available at restaurant.

Thank you