Case Study

Restaurant Operation Analysis



RESTAURANT OPERATIONS ANALYSIS



You've just been hired as a **Data Analyst** for the Taste of the World Café, a restaurant that has diverse menu offerings and serves generous portions



The Taste of the World Café debuted a new menu at the start of the year

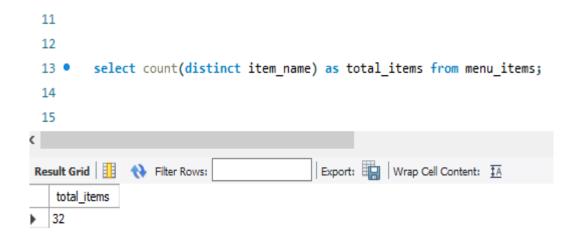
You've been asked to dig into the customer data to see which menu items are doing well / not well and what the top customers seem to like best



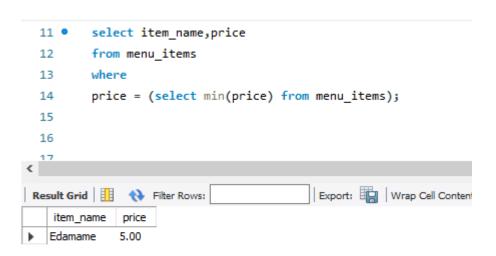
- 1. Explore the menu_items table to get an idea of what's on the new menu
- 2. Explore the order_details table to get an idea of the data that's been collected
- 3. Use both tables to understand how customers are reacting to the new menu



1. Write a query to find the number of items on the menu.



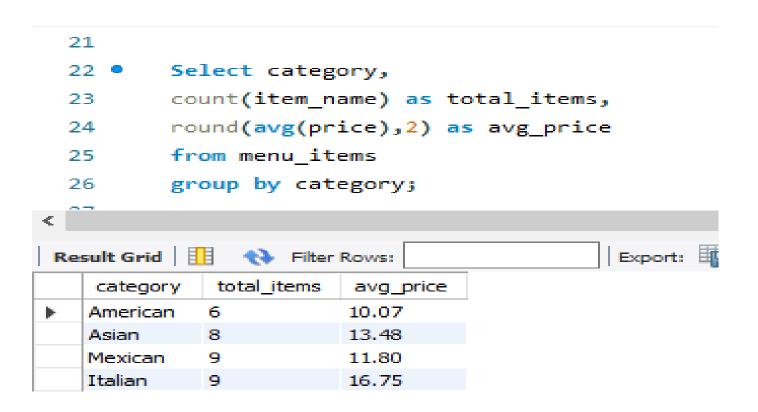
2. What are the least and most expensive items on the menu?



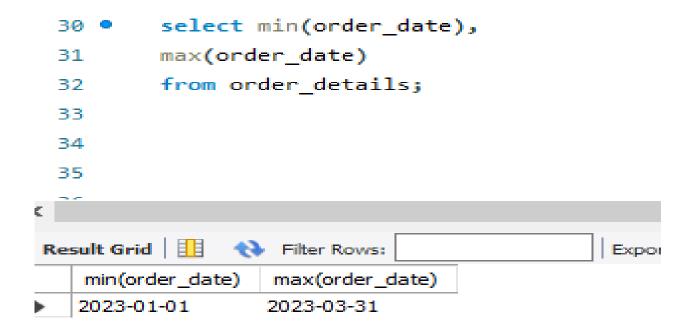
3. How many Italian dishes are on the menu? What are the least and most expensive Italian dishes on the menu?

```
15
 16 •
         Select category, count(item_name),max(price),min(price)
 17
         from menu_items
 18
         group by category
         having category = "Italian";
 19
 20
                                              Export: Wrap Cell Content: 1A
Result Grid
               Filter Rows:
             count(item_name)
                             max(price)
                                        min(price)
   category
  Italian :
                             19.95
            9
                                        14.50
```

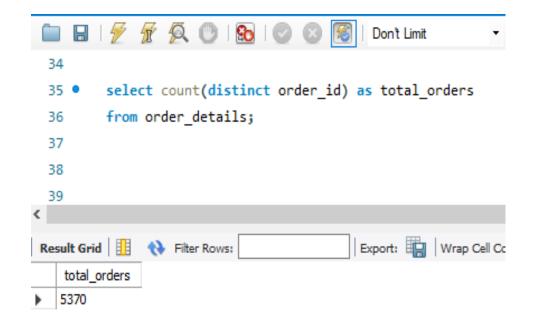
4. How many dishes are in each category? What is the average dish price within each category?

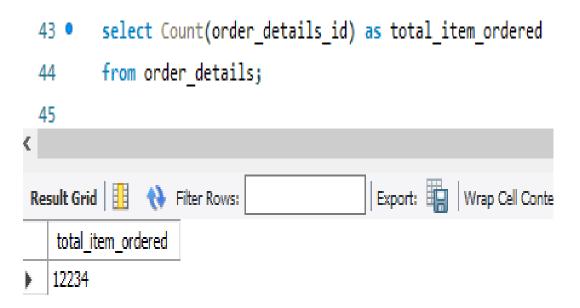


5. View the **order_details** table. What is the date range of the table?



6. How many orders were made within this date range? How many items were ordered within this date range?





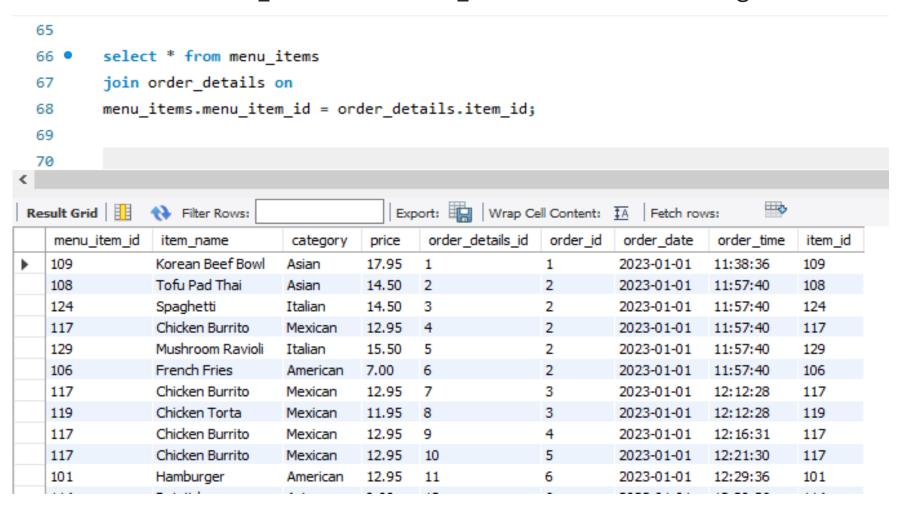
7. Which orders had the most number of items?

```
select
 40 •
         order_id
 41
 42
         from
 43
             (select order_id,count(item_id) as item_per_order
 44
             from order_details
             group by order_id
 45
             order by item_per_order desc
 46
 47
             limit 1) as subq
 48
 49
                                             Export: Wrap Cell Content: $\overline{A}$
Result Grid
               Filter Rows:
   order_id
  330
```

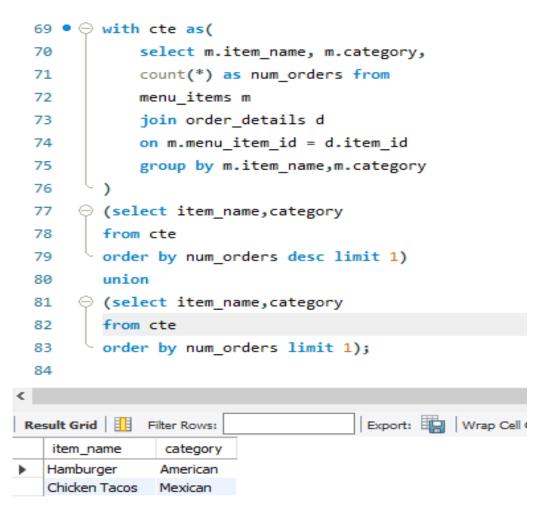
8. How many orders had more than 12 items?

```
50 • ⊖ With cte as(
             select order_id
 51
 52
                 from order_details
                 group by order_id
 53
 54
                 having count(item id) > 12)
 55
 56
         select count(order id) as totalOrders morethan12
 57
         from cte;
 58
 59
                                       Export: Wrap Cell Content:
Result Grid
              Filter Rows:
   totalOrders_morethan12
  20
```

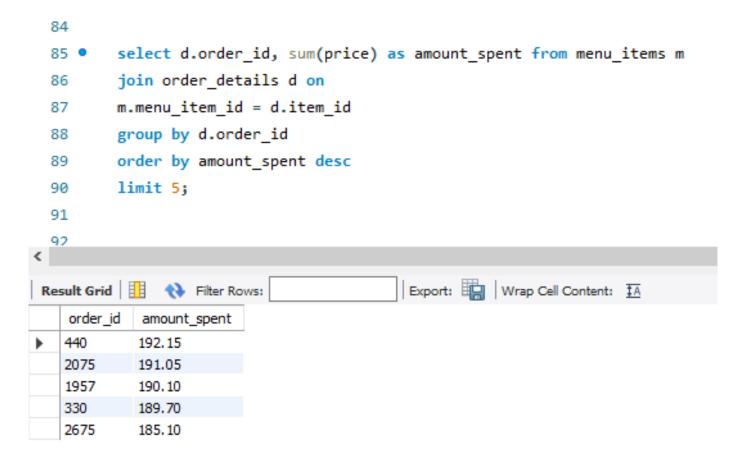
9. Combine the **menu_items** and **order_details** tables into a single table.



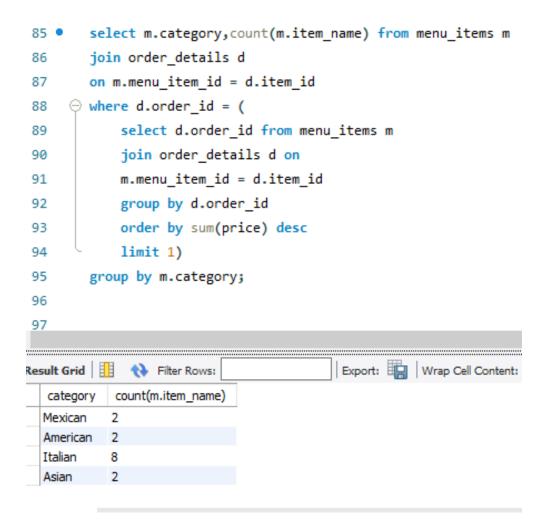
10. What were the least and most ordered items? What categories were they in?



11. What were the top 5 orders that spent the most money?



12. View the details of the highest spend order. Which specific items were purchased?



13. View the details of the top 5 highest spend orders.

