Crunching Cravings
Unveiling Restaurant Favorites

Purpose

- Today, we'll dive into our restaurant data. Why? Because understanding our orders isn't just about spreadsheets—it's about serving our customers better and maximizing profits.

- When we tweaked our menu last quarter? That decision was backed by data, and our dessert sales skyrocketed!

- Our journey includes inventory insights, financial data, popular menu items, and more. Buckle up—we're about to uncover tasty secrets!"

Dish by Dish : Our Data Discovery Agenda

- Total menu items: We'll count every delicious dish.
- Most expensive item: Prepare for a culinary surprise!
- Average dish prices by category: What's hot (and what's not).
- Discover when our data begins and ends.
- Merging menu_items and order_details: A recipe for insights.

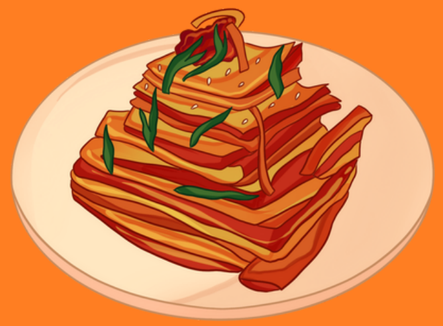
Dish by Dish : Our Data Discovery Agenda

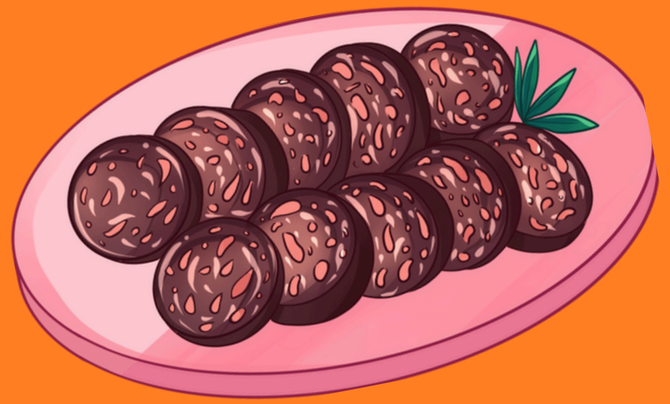
- Orders with more than 12 items: Hungry guests, anyone?
- Most ordered items and their categories: The crowd’s favorites.
- The Top 5 Orders that splurged: Let’s follow the money.
- Details of the highest-spending order: Spoiler alert—it’s lavish!
- Dish breakdown for top spenders: What’s on their plates?

Question 1

What is the total no of items on the menu?

```
SELECT COUNT(DISTINCT item_name) AS Total_No_Of_Items
FROM menu_items;
```





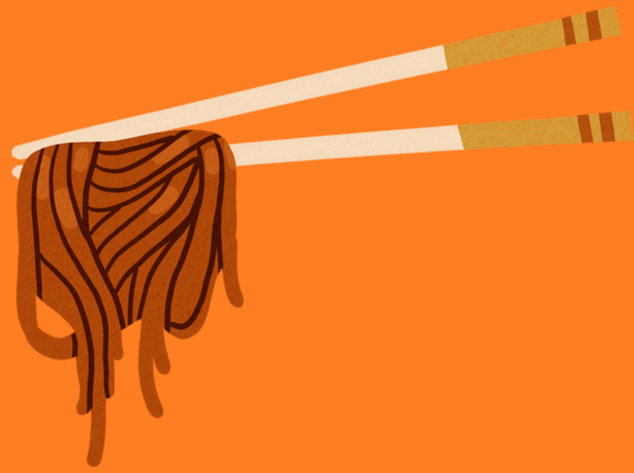
Result Grid

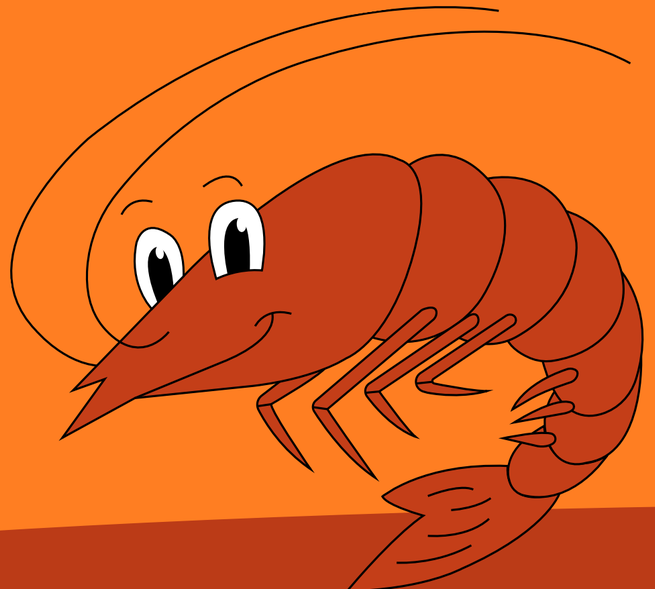
	Total_No_Of_Items
▶	32

Question 2

What is the most expensive item on the menu along with category?

```
SELECT item_name AS Most_Expensive_Item, category, MAX(price) AS Dish_Price
FROM menu_items
GROUP BY item_name, category
ORDER BY Dish_Price DESC
LIMIT 1;
```





Result Grid | Filter Rows:

Most_Expensive_Item	category	Dish_Price
Shrimp Scampi	Italian	19.95

Question 3

What is the average price of dishes based on category?

```
SELECT category, SUM(price)/COUNT(item_name) AS Avg_Price
FROM menu_items
GROUP BY category
ORDER BY avg_price DESC;
```

category	Avg_Price
Italian	16.750000
Asian	13.475000
Mexican	11.800000
American	10.066667

Question 4

What is the date range of the table?

```sql
SELECT
    MIN(order_date) AS Start_Date,
    MAX(order_date) AS End_Date
FROM order_details;
```

	Start_Date	End_Date
▶	2023-01-01	2023-03-31

Question 5

Combine the menu_items and order_details tables into a single table.

```
SELECT *
FROM order_details AS ord
JOIN menu_items AS menu
    ON menu.menu_item_id = ord.item_id;
```

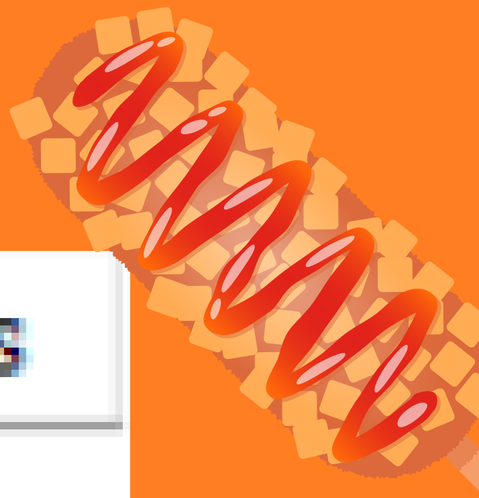
order_details_id	order_id	order_date	order_time	item_id	menu_item_id	item_name	category	price
1	1	2023-01-01	11:38:36	109	109	Korean Beef Bowl	Asian	17.95
2	2	2023-01-01	11:57:40	108	108	Tofu Pad Thai	Asian	14.50
3	2	2023-01-01	11:57:40	124	124	Spaghetti	Italian	14.50
4	2	2023-01-01	11:57:40	117	117	Chicken Burrito	Mexican	12.95
5	2	2023-01-01	11:57:40	129	129	Mushroom Ravioli	Italian	15.50
6	2	2023-01-01	11:57:40	106	106	French Fries	American	7.00
7	3	2023-01-01	12:12:28	117	117	Chicken Burrito	Mexican	12.95
8	3	2023-01-01	12:12:28	119	119	Chicken Torta	Mexican	11.95
9	4	2023-01-01	12:16:31	117	117	Chicken Burrito	Mexican	12.95
10	5	2023-01-01	12:21:30	117	117	Chicken Burrito	Mexican	12.95
11	6	2023-01-01	12:29:36	101	101	Hamburger	American	12.95
12	6	2023-01-01	12:29:36	114	114	Potstickers	Asian	9.00
13	7	2023-01-01	12:50:37	123	123	Chips & Guacamole	Mexican	9.00
14	8	2023-01-01	12:51:37	123	123	Chips & Guacamole	Mexican	9.00
15	9	2023-01-01	12:52:01	108	108	Tofu Pad Thai	Asian	14.50
16	9	2023-01-01	12:52:01	126	126	Fettuccine Alfredo	Italian	14.50
17	9	2023-01-01	12:52:01	110	110	Pork Ramen	Asian	17.95
18	9	2023-01-01	12:52:01	117	117	Chicken Burrito	Mexican	12.95
19	9	2023-01-01	12:52:01	117	117	Chicken Burrito	Mexican	12.95
20	9	2023-01-01	12:52:01	129	129	Mushroom Ravioli	Italian	15.50
21	9	2023-01-01	12:52:01	122	122	Chips & Salsa	Mexican	7.00
22	9	2023-01-01	12:52:01	130	130	Shrimp Scampi	Italian	19.95

Question 6

How many orders had more than 12 items?

```sql
WITH cte AS
(SELECT order_id, COUNT(order_details_id) FROM order_details
GROUP BY order_id
HAVING COUNT(order_details_id) >12
ORDER BY COUNT(order_details_id) DESC)

SELECT COUNT(*) AS Orders_with_more_than_12_items FROM cte
```



Orders_with_more_than_12_items
23

Question 7

What were the most ordered items? What categories were they in?

```sql
SELECT menu.category, menu.item_name AS Most_Ordered_Item, COUNT(ord.item_id) as No_Of_Times_Ordered
FROM menu_items AS menu
JOIN order_details AS ord
    ON menu.menu_item_id = ord.item_id
GROUP BY menu.category, Most_Ordered_Item
ORDER BY No_Of_Times_Ordered DESC
LIMIT 1;
```

	category	Most_Ordered_Item	No_Of_Times_Ordered
▶	American	Hamburger	622

Question 8

What were the Top 5 Orders that spent the most money?

```
SELECT ord.order_id AS Top_5_Orders, SUM(menu.price) AS Amount_Spend
FROM order_details AS ord
JOIN menu_items AS menu
    ON ord.item_id = menu.menu_item_id
GROUP BY Top_5_Orders
ORDER BY Amount_Spend DESC
LIMIT 5;
```

Top_5_Orders	Amount_Spend
440	192.15
2075	191.05
1957	190.10
330	189.70
2675	185.10

Question 9

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

```sql
WITH cte AS (
    SELECT ord.order_id AS ORD_ID, SUM(menu.price) AS TotalPrice
    FROM order_details AS ord
    JOIN menu_items AS menu ON ord.item_id = menu.menu_item_id
    GROUP BY ord.order_id
    ORDER BY TotalPrice DESC
    LIMIT 1
)
SELECT ord.order_id AS Highest_Spend_Order, menu.item_name, menu.price
FROM order_details AS ord
JOIN menu_items AS menu ON ord.item_id = menu.menu_item_id
WHERE ord.order_id = (SELECT cte.ORD_ID FROM cte);
```

Highest_Spend_Order	item_name	price
440	Steak Tacos	13.95
440	Hot Dog	9.00
440	Spaghetti	14.50
440	Spaghetti & Meatballs	17.95
440	Spaghetti & Meatballs	17.95
440	Fettuccine Alfredo	14.50
440	Fettuccine Alfredo	14.50
440	Korean Beef Bowl	17.95
440	Meat Lasagna	17.95
440	Edamame	5.00
440	Chips & Salsa	7.00
440	Chicken Parmesan	17.95
440	French Fries	7.00
440	Eggplant Parmesan	16.95

Question 10

What is the count of dishes based on categories for top 5 most spend orders?

```sql
WITH cte AS (
    SELECT ord.order_id AS od_id, SUM(menu.price) AS TotalPrice
    FROM order_details AS ord
    JOIN menu_items AS menu ON ord.item_id = menu.menu_item_id
    GROUP BY ord.order_id
    ORDER BY TotalPrice DESC
    LIMIT 5
)
SELECT menu.category, COUNT(menu.category) AS Item_Count
FROM order_details AS ord
JOIN menu_items AS menu ON ord.item_id = menu.menu_item_id
WHERE ord.order_id IN (SELECT od_id FROM cte)
GROUP BY menu.category;
```

category	Item_Count
Asian	17
American	10
Italian	26
Mexican	16

Insights

We’ve got a **grand total of 32 mouthwatering items** on our menu. Hungry yet?

Drumroll, please! Our most expensive item is the **Shrimp Scampi** in the **Italian category**. It’s a culinary masterpiece worth every penny.

Our data spans from **2023-01-01 to 2023-03-31**. That’s a flavorful journey!

We’ve **combined menu_items and order_details** into a single, harmonious table. Voilà!

23 orders went all out—more than 12 items per order. Impressive feasting!

THANK YOUU