# Exploratory Data Analysis (EDA)

# BASIC DATA EXPLOITATION WITH THE HELP OF AGGREGATED FUNCTIONS TO BETTER UNDERSTAND THE DATA FOR ANALYSIS.

Q:1 WHAT IS THE AVERAGE PRICE OF THE FOOD ITEMS AVAILABLE ON THE RESTAURANT'S MENU?

### Query

Select avg(price) from managment\_restaurnt.menu\_items;

#### **Answer Table**

avg(price) 13.285937499999996

Q:2 HOW MANY TOTAL ORDERS HAVE BEEN PLACED AT THE RESTAURANT?

#### Query

Select count(order\_id)
from managment\_restaurnt.order\_details;

#### **Answer Table**

count(order\_id) 12097 Q:3 WHAT ARE THE MOST EXPENSIVE AND CHEAPEST DISHES AVAILABLE AT THE RESTAURANT?

## Query

```
SELECT

item_name,

price

FROM

managment_restaurnt.menu_items

ORDER BY

price ASC

LIMIT 1;
```

### **Answer Table**

item_name	price
Shrimp Scampi	19.95

# Query

```
SELECT
   item_name,
   price
FROM
   managment_restaurnt.menu_items
ORDER BY
   price ASC
LIMIT 1;
```

### **Answer Table**

item_name	price
Edamame	5

Q:4 WHAT ARE THE MOST EXPENSIVE AND CHEAPEST DISHES AVAILABLE AT THE RESTAURANT?

```
item_name, price,
    COUNT(item_id) AS total_orders,
    SUM(price) AS total_revenue

FROM
    menu_items

JOIN
    order_details on item_id = item_id

GROUP BY
    item_name, price

ORDER BY
    total_revenue asc;
```

Query

### **Answer Table**



#### Q:5 WHAT IS THE PROFITABILITY BREAKDOWN ACROSS DIFFERENT FOOD CATEGORIES?

```
Ans: select
category,
count(item_id) as total_orders,
sum(price) as total_revenue
from
menu_items
join
order_details on item_id
group by
category
order by
total_revenue desc
limit 4;
```

# Query

category	total_orders	total_revenue
Italian	108873	1823622.749998136
Asian	96776	1304056.5999988127
Mexican	108873	1284701.399998243
American	72582	730658.7999998245

**Answer Table**