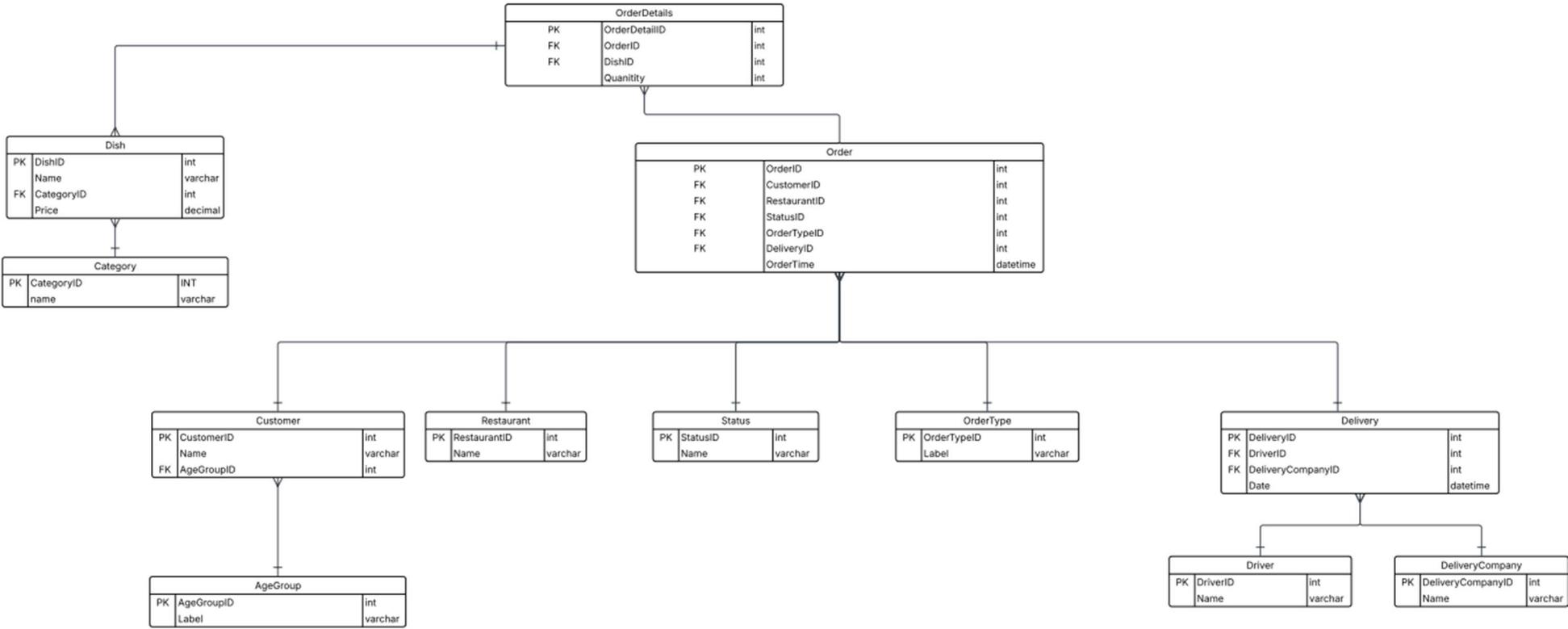


Thomas Hollingshead
SQL Demo



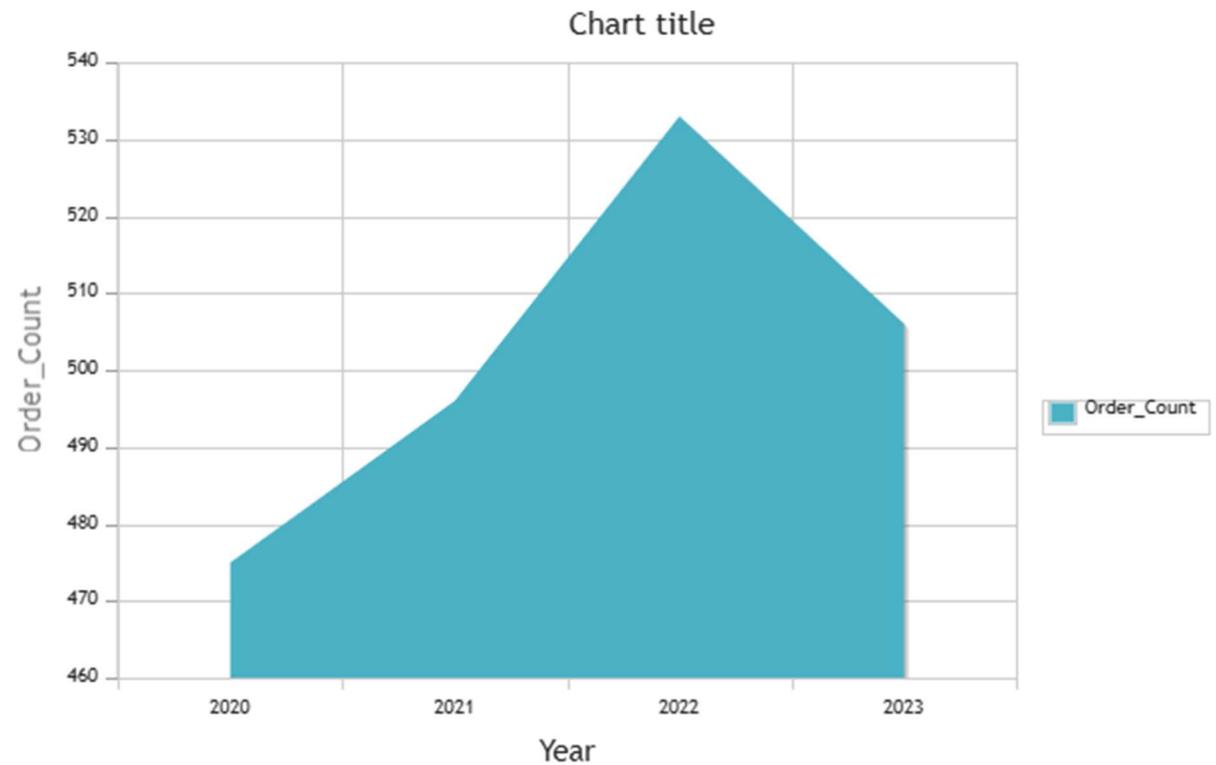
Query 1: Total Orders Per Year

```
SELECT YEAR(Order.OrderTime) AS Year, COUNT(*) AS Order_Count  
FROM `Order`  
GROUP BY YEAR(Order.OrderTime);
```

Query 1 Shows how many orders are placed by year, and it helps us identify growth over time

Query 2: Orders Per Restaurant Per year

```
SELECT  
YEAR(`Order`.OrderTime) AS Year,  
Restaurant.Name AS RestaurantName,  
COUNT(*) AS Order_Count  
FROM `Order`
```



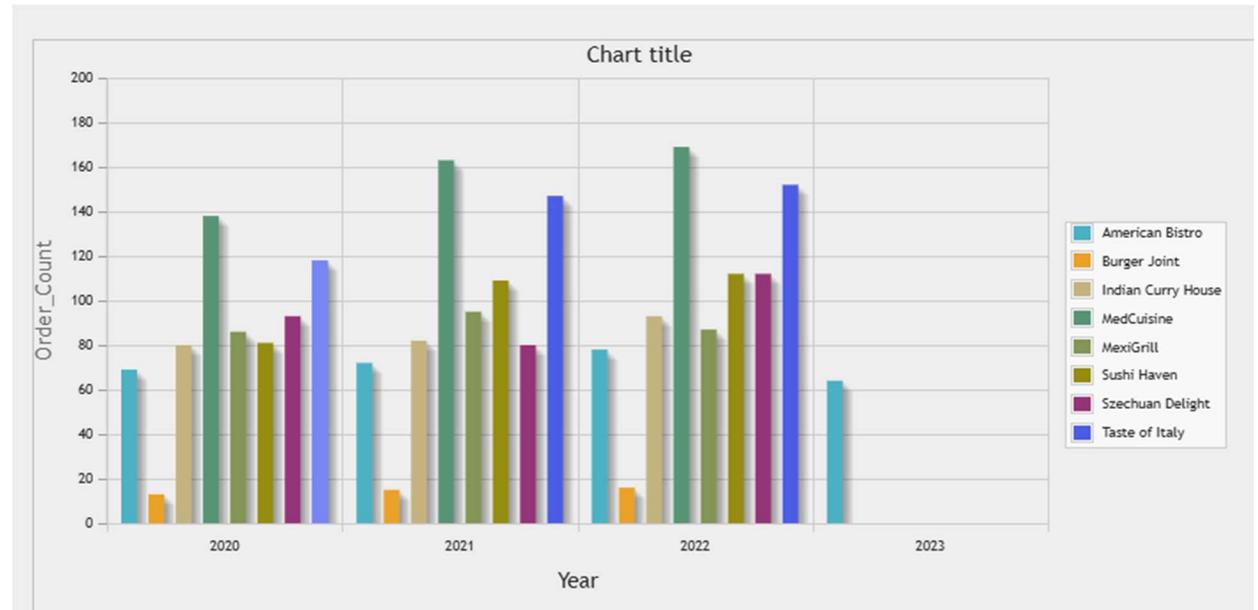
```
JOIN OrderDetails ON `Order`.ID =  
OrderDetails.Order_ID
```

```
JOIN Dish ON OrderDetails.Dish_ID =  
Dish.ID
```

```
JOIN Restaurant ON  
Dish.Restaurant_ID = Restaurant.ID
```

```
GROUP BY YEAR(`Order`.OrderTime),  
Restaurant.Name;
```

Query 2 shows us the number of orders each restaurant received annually. It shows us which restaurants drive the most business.



Query 3: Orders Per Restaurant and Delivery Company Per Year

```
SELECT
```

```
YEAR(`Order`.OrderTime) AS Year,
```

```
CONCAT(Restaurant.Name, ' - ', DeliveryCompany.Name) AS Restaurant_Delivery_Combo,
```

```
COUNT(*) AS Order_Count
```

```
FROM `Order`
```

JOIN Delivery ON `Order`.ID = Delivery.Order_ID

JOIN Driver ON Delivery.Driver_ID = Driver.ID

JOIN Manager ON Driver.Manager_ID
= Manager.ID

JOIN DeliveryCompany ON
Manager.DeliveryCompany_ID =
DeliveryCompany.ID

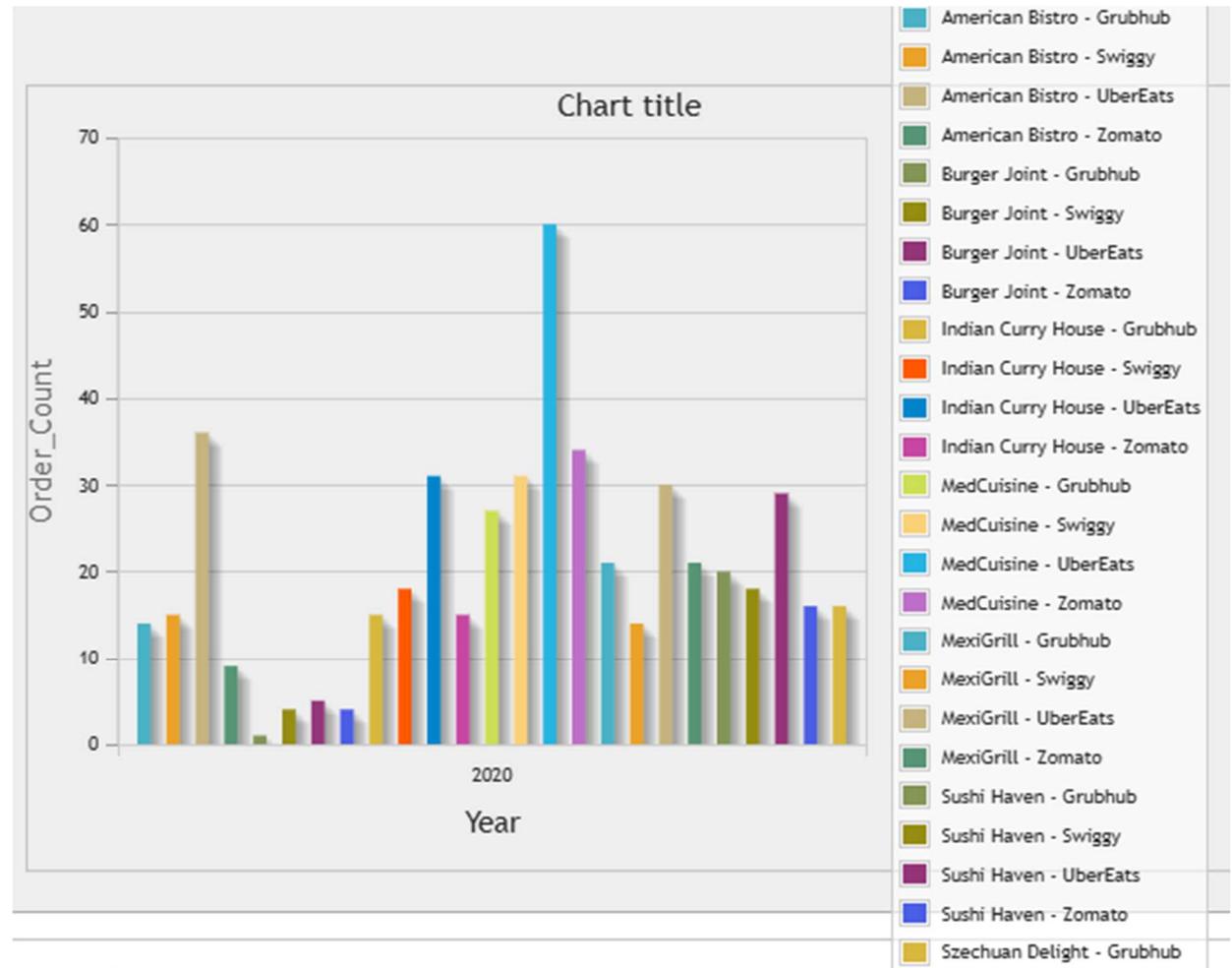
JOIN OrderDetails ON `Order`.ID =
OrderDetails.Order_ID

JOIN Dish ON OrderDetails.Dish_ID =
Dish.ID

JOIN Restaurant ON
Dish.Restaurant_ID = Restaurant.ID

WHERE DeliveryCompany.Name IS
NOT NULL

GROUP BY
YEAR(`Order`.OrderTime),
Restaurant_Delivery_Combo;



This query displays the number of orders placed a specific years for every Restaurant/Delivery company *combination*. It shows us the relationship between the restaurants and delivery company.

Query 4: Yearly Revenue

SELECT

DATE_FORMAT(`Order`.OrderTime, '%Y-%m') AS Period,

**SUM(Dish.Price *
OrderDetails.Quantity) AS
Total_Revenue**

FROM `Order`

JOIN OrderDetails ON

**`Order`.ID =
OrderDetails.Order_ID**

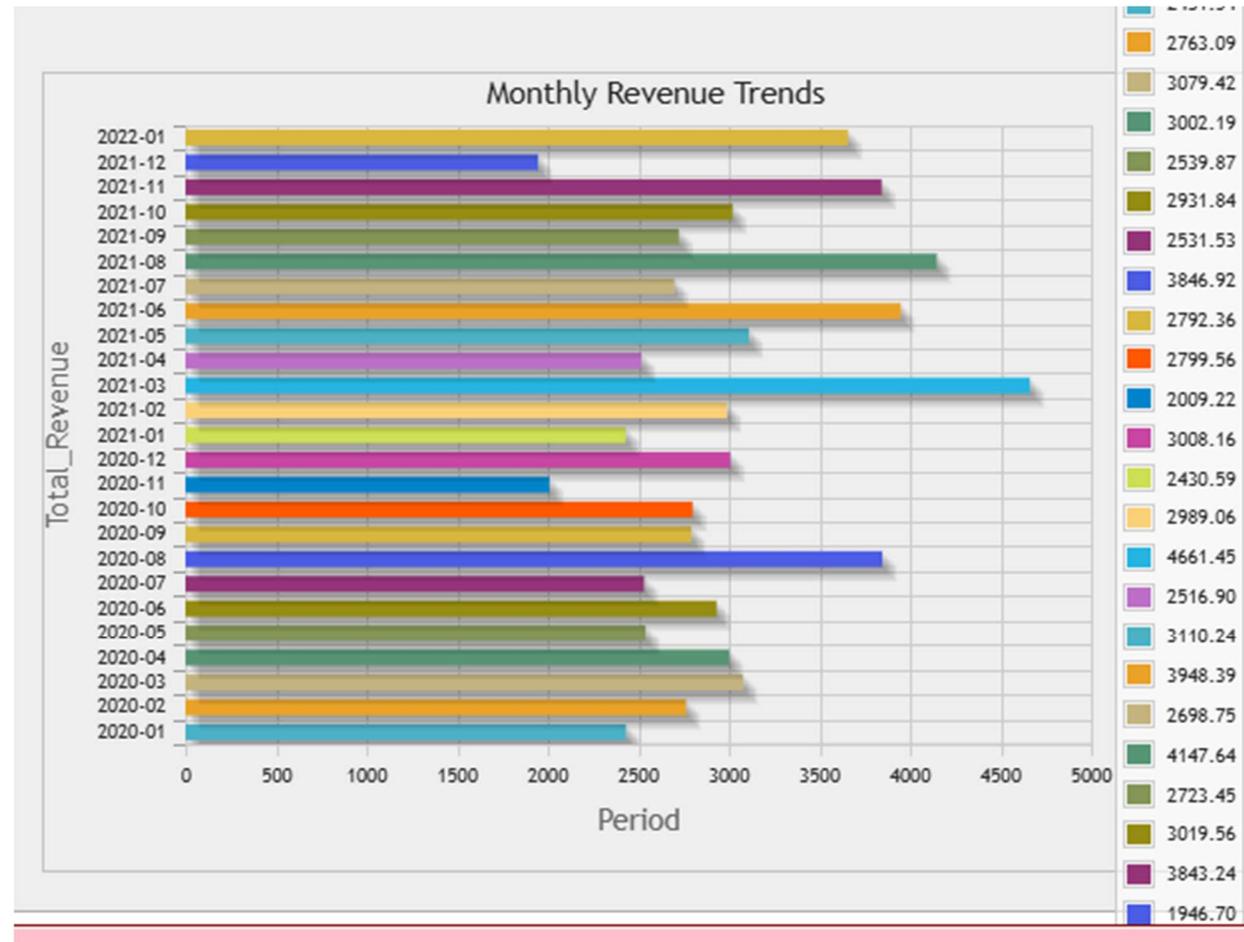
JOIN Dish ON

**OrderDetails.Dish_ID =
Dish.ID**

GROUP BY Period

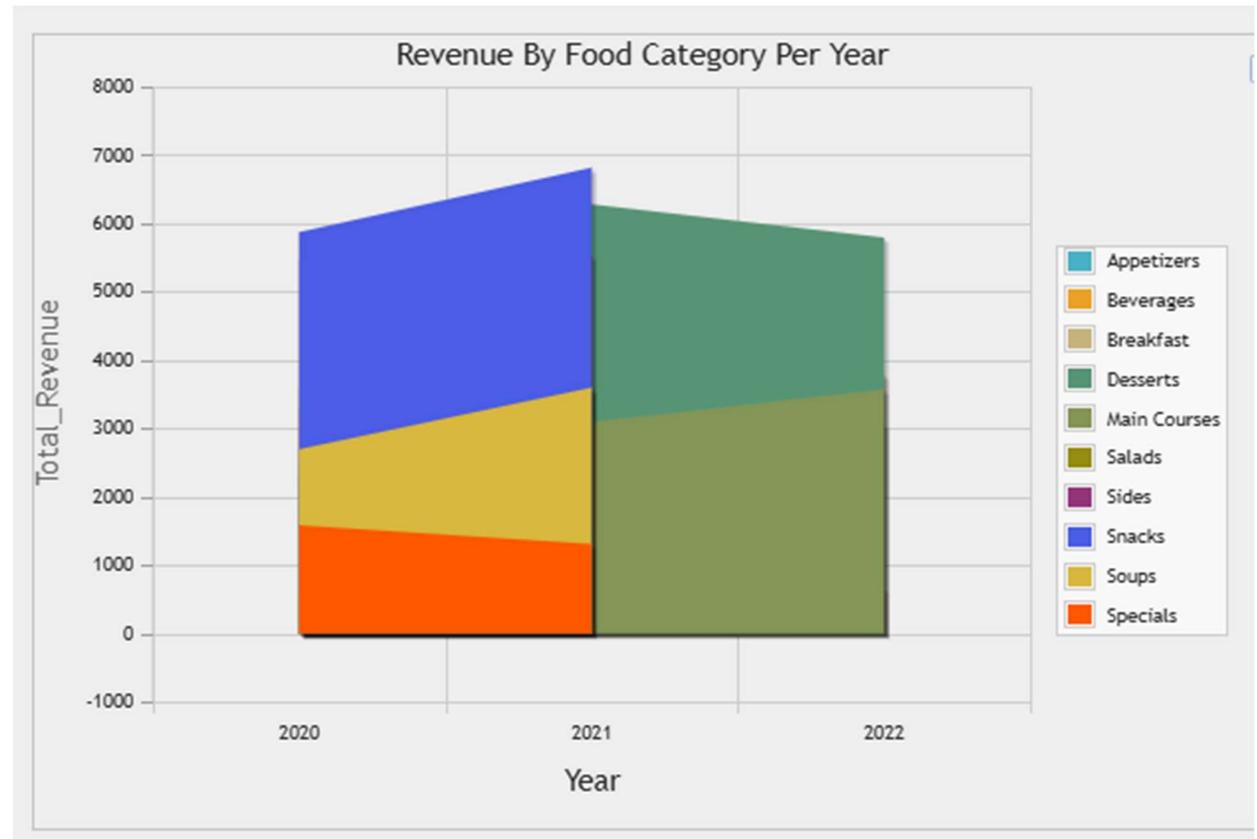
ORDER BY Period;

This query calculates total monthly revenue across multiple years.



Query 5: Revenue By Food Category per Year

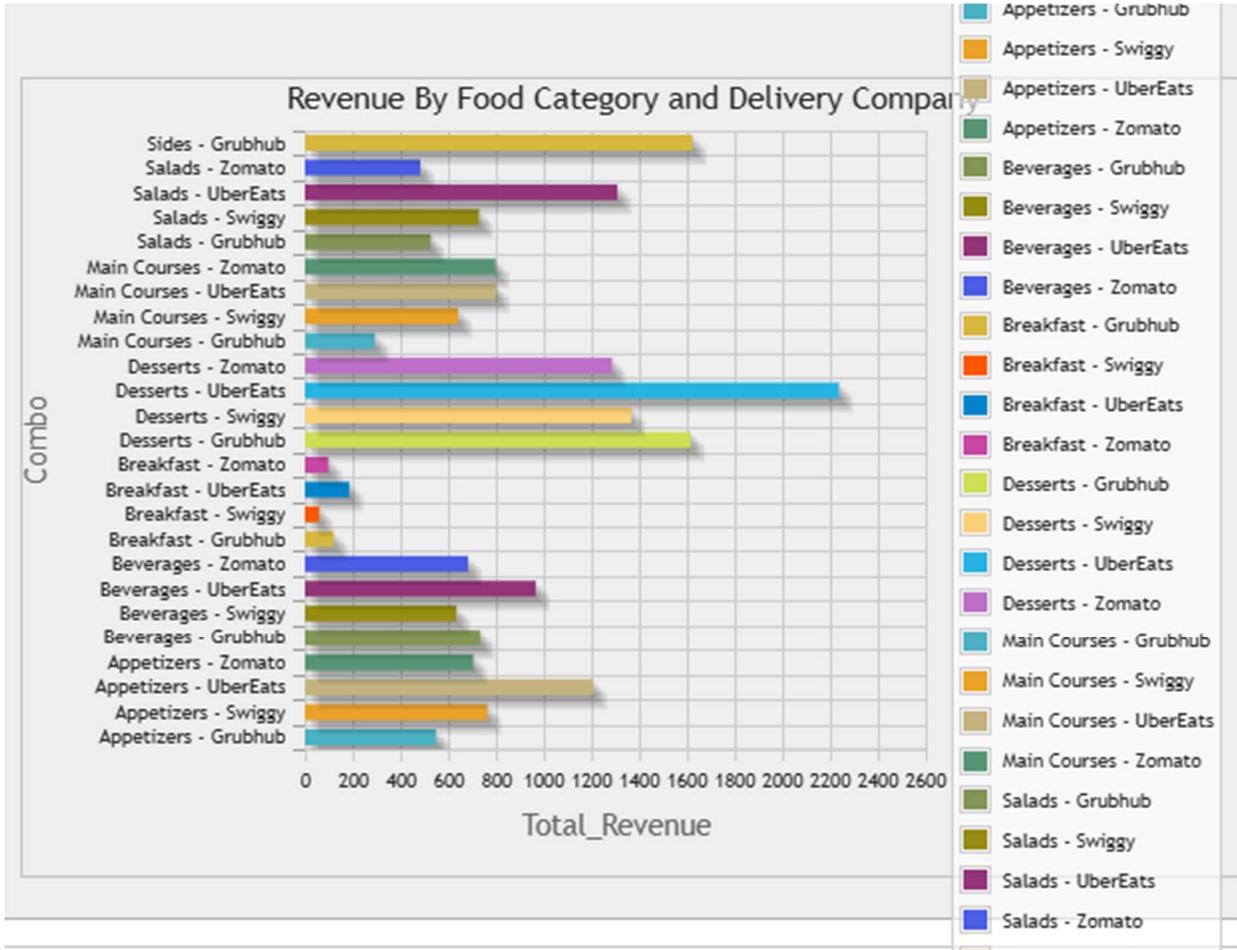
```
SELECT
  YEAR(`Order`.OrderTime) AS
  Year,
  Category.Name AS
  CategoryName,
  SUM(Dish.Price *
  OrderDetails.Quantity) AS
  Total_Revenue
FROM `Order`
JOIN OrderDetails ON `Order`.ID
= OrderDetails.Order_ID
JOIN Dish ON
OrderDetails.Dish_ID = Dish.ID
JOIN Category ON
Dish.Category_ID = Category.ID
GROUP BY YEAR(`Order`.OrderTime), Category.Name
ORDER BY Year, Category.Name;
```



This shows us how revenue by dish type can shift over time, so we can optimize menus better for marketing strategy.

Query 6: Revenue By Food Category and Delivery Company Per Year

```
SELECT
YEAR(`Order`.OrderTime) AS Year,
CONCAT(Category.Name, ' - ', DeliveryCompany.Name) AS Category_Delivery_Combo,
SUM(Dish.Price * OrderDetails.Quantity) AS Total_Revenue
FROM `Order`
JOIN OrderDetails ON `Order`.ID = OrderDetails.Order_ID
JOIN Dish ON OrderDetails.Dish_ID = Dish.ID
JOIN Category ON Dish.Category_ID = Category.ID
JOIN Delivery ON `Order`.ID = Delivery.Order_ID
JOIN Driver ON Delivery.Driver_ID = Driver.ID
JOIN Manager ON Driver.Manager_ID = Manager.ID
JOIN DeliveryCompany ON Manager.DeliveryCompany_ID = DeliveryCompany.ID
WHERE DeliveryCompany.Name IS NOT NULL
GROUP BY YEAR(`Order`.OrderTime), Category_Delivery_Combo
ORDER BY Year, Category_Delivery_Combo;
```



This way we can see which foods are sold best and what delivery services are used for those foods.

Query 7: Top Level AVG Query

SELECT

YEAR(`Order`.OrderTime) AS Year,

AVG(Dish.Price) AS AveragePrice

FROM

`Order`

JOIN

OrderDetails ON `Order`.ID =
OrderDetails.Order_ID

JOIN

Dish ON OrderDetails.Dish_ID =
Dish.ID

GROUP BY

YEAR(`Order`.OrderTime);



Query 7: First Drilldown AVG QUERY

SELECT

YEAR(` Order `.OrderTime) AS Year,

Category.Name AS CategoryName,

AVG(Dish.Price) AS AveragePrice

FROM

` Order `

JOIN

**OrderDetails ON ` Order `.ID =
OrderDetails.Order_ID**

JOIN

Dish ON OrderDetails.Dish_ID = Dish.ID

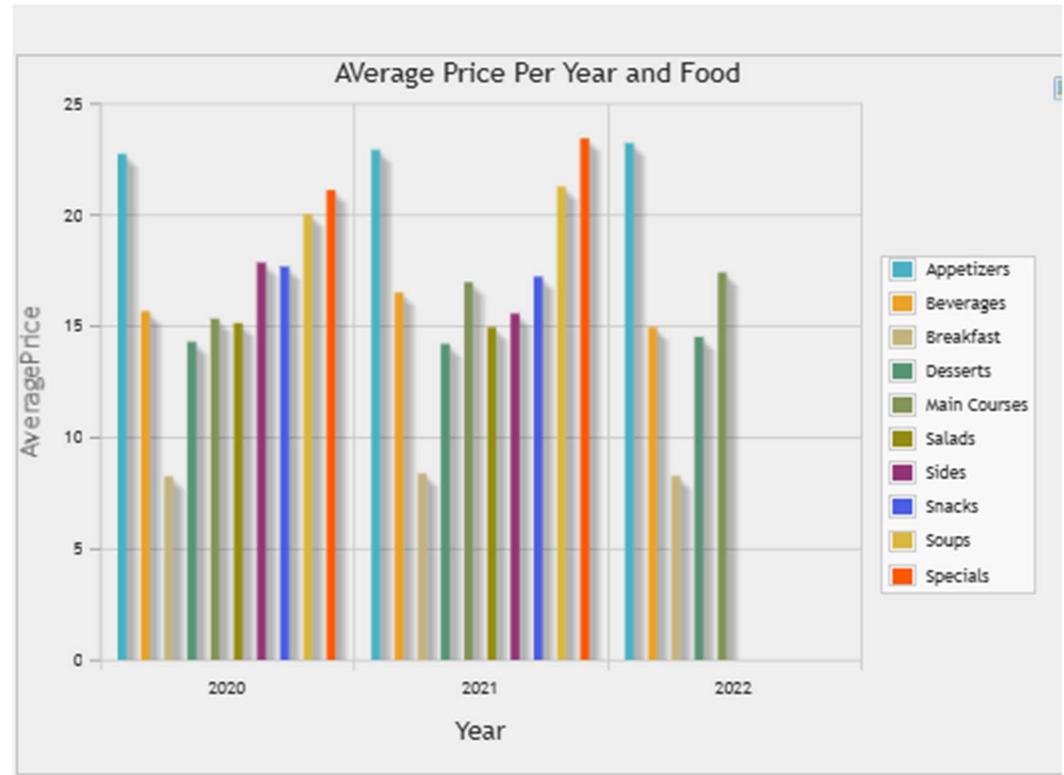
JOIN

Category ON Dish.Category_ID = Category.ID

GROUP BY

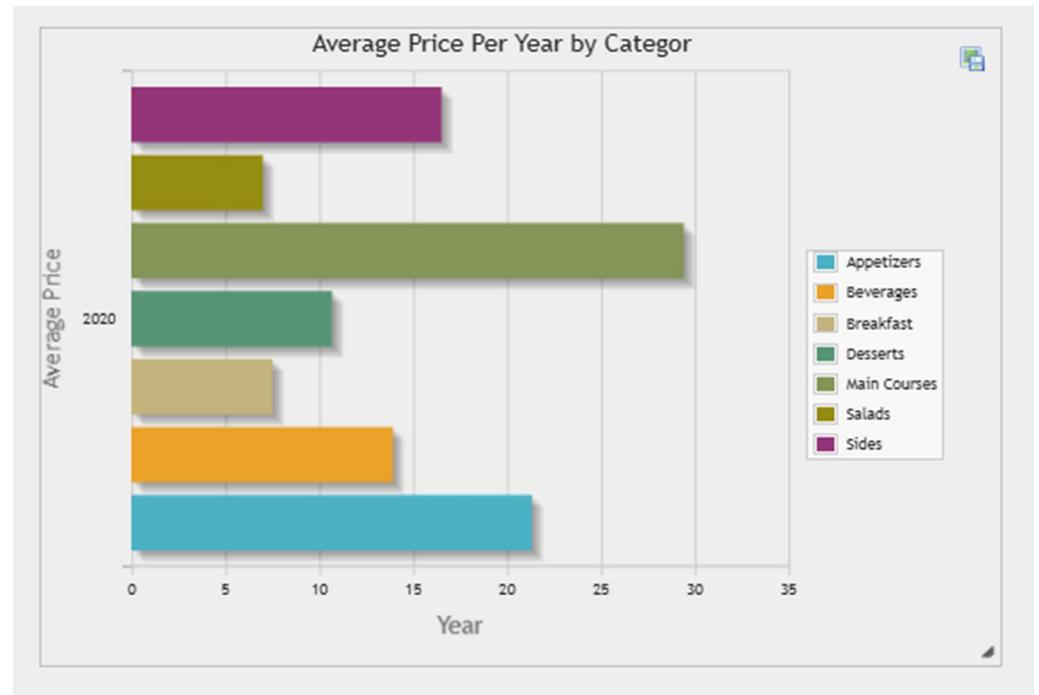
YEAR(` Order `.OrderTime),

Category.Name;



Query 8: Drilldown

```
SELECT  
  
    YEAR(`Order`.OrderTime) AS Year,  
  
    Category.Name AS CategoryName,  
  
    AVG(Dish.Price) AS AveragePrice  
  
FROM  
  
    `Order`  
  
JOIN  
  
    OrderDetails ON `Order`.ID = OrderDetails.Order_ID  
  
JOIN  
  
    Dish ON OrderDetails.Dish_ID = Dish.ID  
  
JOIN  
  
    Category ON Dish.Category_ID = Category.ID  
  
GROUP BY  
  
    YEAR(`Order`.OrderTime),  
  
    Category.Name;
```



Query 9: Third Drilldown AVG Query

SELECT

YEAR(` Order ` .OrderTime) AS Year,

Category.Name AS CategoryName,

Restaurant.Name AS RestaurantName,

DeliveryCompany.Name AS DeliveryCompanyName,

AVG(Dish.Price) AS AveragePrice

FROM

` Order `

JOIN

OrderDetails ON ` Order ` .ID = OrderDetails.Order_ID

JOIN

Dish ON OrderDetails.Dish_ID = Dish.ID

JOIN

Category ON Dish.Category_ID = Category.ID

JOIN

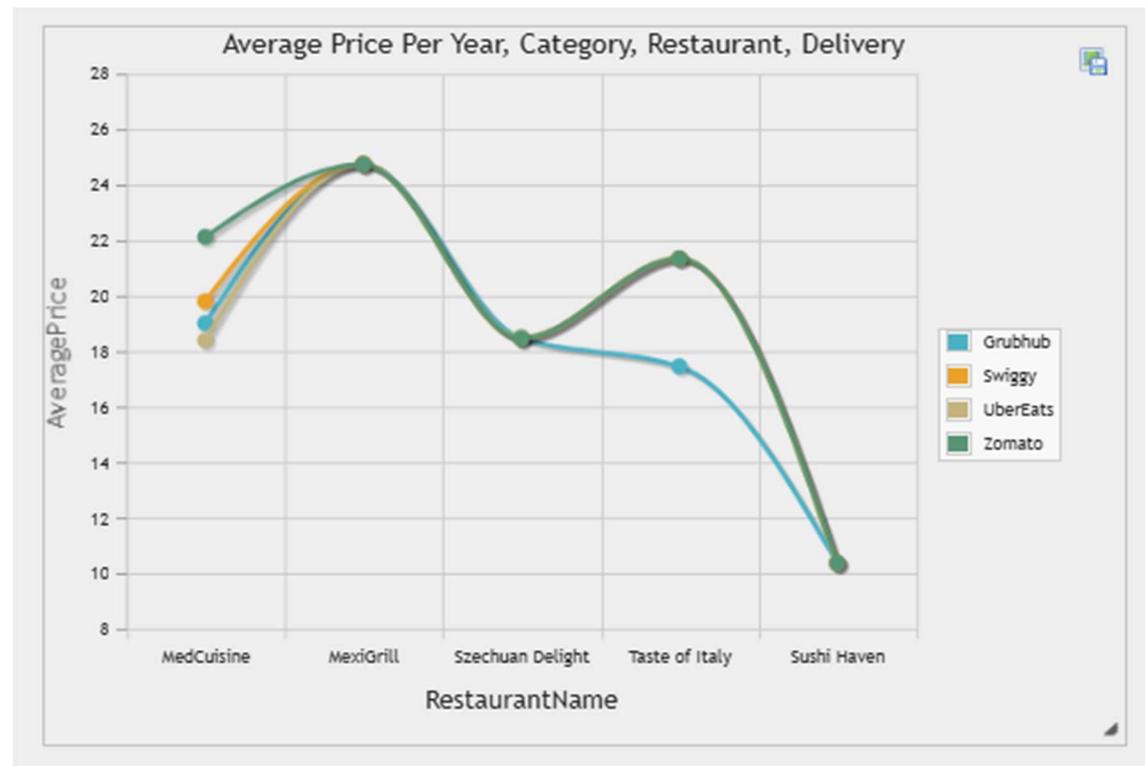
Restaurant ON Dish.Restaurant_ID = Restaurant.ID

JOIN

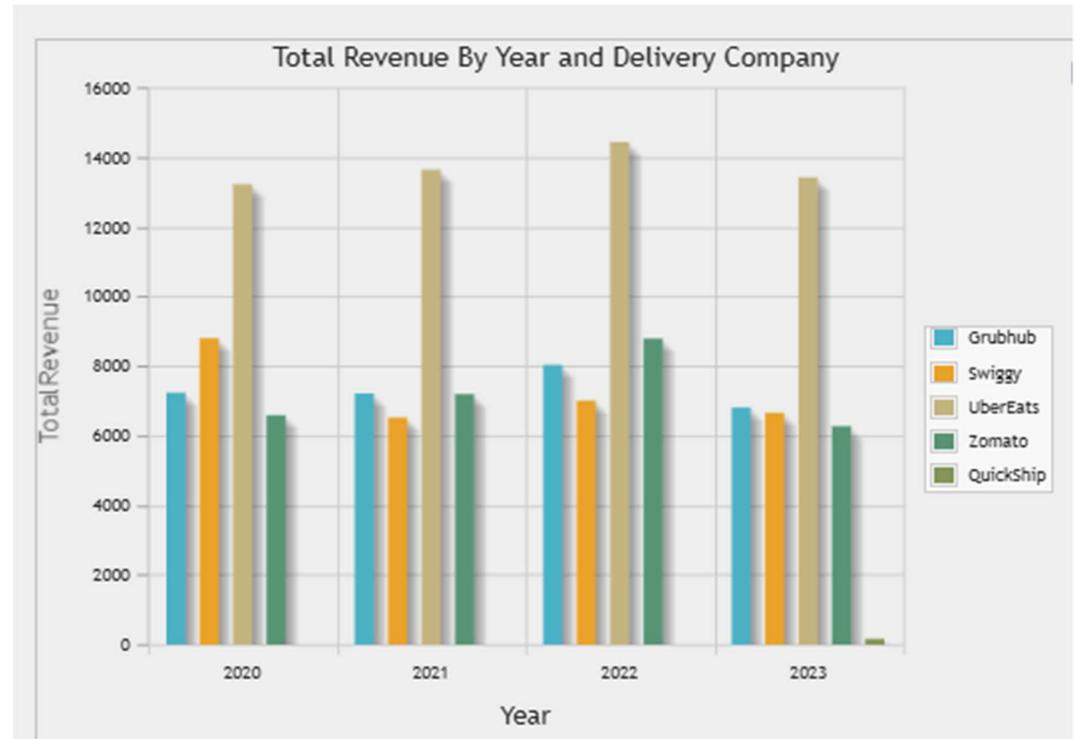
```
Delivery ON `Order`.ID = Delivery.Order_ID  
JOIN  
Driver ON Delivery.Driver_ID = Driver.ID  
JOIN  
Manager ON Driver.Manager_ID = Manager.ID  
JOIN  
DeliveryCompany ON Manager.DeliveryCompany_ID = DeliveryCompany.ID  
WHERE  
DeliveryCompany.Name IS NOT NULL  
GROUP BY  
YEAR(`Order`.OrderTime),  
Category.Name,  
Restaurant.Name,  
DeliveryCompany.Name;
```

Query 10: Extra SUM Query

```
SELECT  
YEAR(`Order`.OrderTime) AS Year,
```



```
DeliveryCompany.Name AS DeliveryCompanyName,  
SUM(Dish.Price * OrderDetails.Quantity) AS TotalRevenue  
FROM  
  `Order`  
JOIN  
  OrderDetails ON `Order`.ID = OrderDetails.Order_ID  
JOIN  
  Dish ON OrderDetails.Dish_ID = Dish.ID  
JOIN  
  Delivery ON `Order`.ID = Delivery.Order_ID  
JOIN  
  Driver ON Delivery.Driver_ID = Driver.ID  
JOIN  
  Manager ON Driver.Manager_ID = Manager.ID  
JOIN  
  DeliveryCompany ON Manager.DeliveryCompany_ID = DeliveryCompany.ID  
WHERE  
  DeliveryCompany.Name IS NOT NULL
```



GROUP BY

YEAR(` Order ` .OrderTime),
DeliveryCompany.Name;

Query 11: Extra COUNT Query:

SELECT

YEAR(`Order`.OrderTime) AS Year,

DeliveryCompany.Name AS DeliveryCompanyName,

COUNT(*) AS OrderCount

FROM

`Order`

JOIN

Delivery ON `Order`.ID = Delivery.Order_ID

JOIN

Driver ON Delivery.Driver_ID = Driver.ID

JOIN

Manager ON Driver.Manager_ID = Manager.ID

JOIN

DeliveryCompany ON Manager.DeliveryCompany_ID = DeliveryCompany.ID

WHERE

DeliveryCompany.Name IS NOT NULL

GROUP BY



```
YEAR(` Order ` .OrderTime),  
DeliveryCompany.Name;
```

Query 12: Simlpe AVG By Manager and Restaurant:

```
SELECT  
YEAR(` Order ` .OrderTime) AS Year,  
Manager.FirstName AS ManagerName,  
Restaurant.Name AS RestaurantName,  
AVG(Dish.Price) AS AveragePrice  
FROM  
` Order `  
JOIN  
OrderDetails ON ` Order ` .ID = OrderDetails.Order_ID  
JOIN  
Dish ON OrderDetails.Dish_ID = Dish.ID  
JOIN  
Restaurant ON Dish.Restaurant_ID = Restaurant.ID
```



JOIN

Delivery ON `Order`.ID = Delivery.Order_ID

JOIN

Driver ON Delivery.Driver_ID = Driver.ID

JOIN

Manager ON Driver.Manager_ID = Manager.ID

WHERE

Manager.FirstName IS NOT NULL

GROUP BY

YEAR(`Order`.OrderTime), ManagerName, RestaurantName;