PIZZA SALES
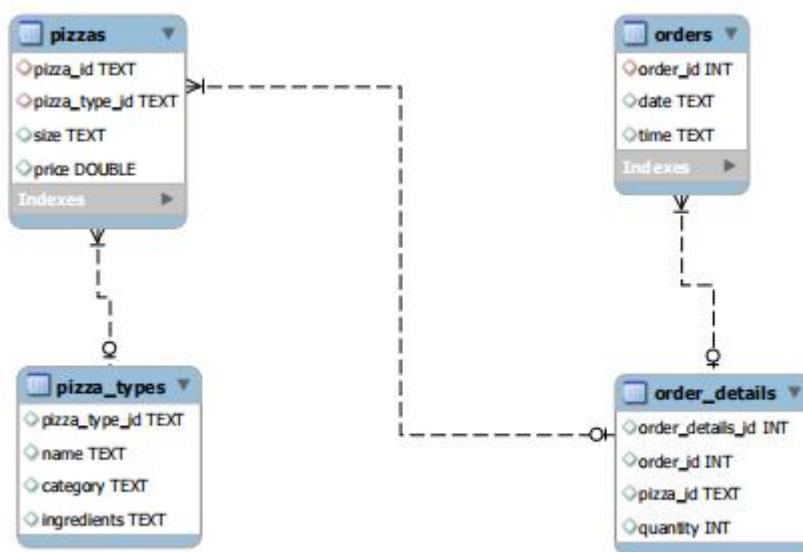# SQL QUERY RESULT

Dataset Link : https://www.kaggle.com/datasets/nextmillionaire/pizza-sales-dataset

This Data consists annual sales data of a fictitious pizza place, including the date and time of each order and the pizzas served, with additional details on the type, size, quantity, price, and ingredients.

ER Model

Overview of Table

Order_details
1. order_details_id - Unique identifier for each pizza placed within each order
2. order_id - Unique identifier for each order placed by a table
3. pizza_id - Foreign key that ties the pizza ordered to its details, like size and price
4. quantity - Quantity ordered for each pizza of the same type and size

Orders
1. order_id - Unique identifier for each order placed by a table
2. date - Date the order was placed
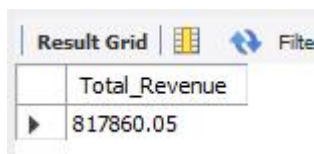3. time - Time the order was placed

Pizza_Types
1. pizza_type_id - Unique identifier for each pizza type
2. name - Name of the pizza as shown in the menu
3. category - Category that the pizza fall under in the menu (Classic, Chicken, Supreme, or Veggie)
4. ingredients - Comma-delimited ingredients used in the pizza as shown in the menu

Pizzas
1. pizza_id - Unique identifier for each pizza
2. pizzas_type_id - |Foreign key that ties each pizza to its broader pizza type
3. size - Size of the pizza (Small, Medium, Large)
4. price - Price of the pizza in USD

TOTAL REVENUE

```
SELECT ROUND(SUM(order_details.quantity * pizzas.price), 2) AS Total_Revenue
FROM order_details LEFT JOIN pizzas
ON order_details.pizza_id = pizzas.pizza_id;
```
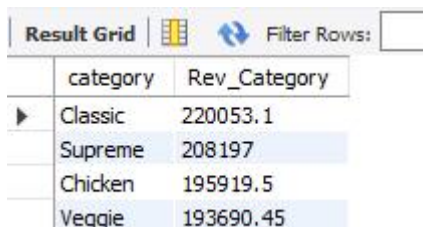
	Total_Revenue
▶	817860.05

Result Grid | Filte

REVENUE BY PIZZA CATEGORY

```
SELECT PT.category, ROUND(SUM(OD.quantity * P.price), 2) AS Rev_Category
FROM order_details AS OD
LEFT JOIN pizzas AS P ON OD.pizza_id = P.pizza_id
LEFT JOIN pizza_types AS PT ON PT.pizza_type_id = P.pizza_type_id
GROUP BY PT.category
ORDER BY Rev_Category DESC;
```
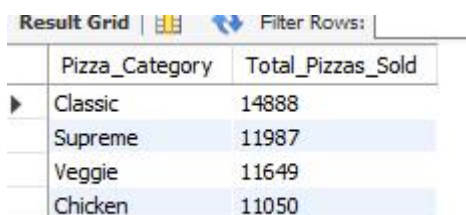
Result Grid | Filter Rows:

	category	Rev_Category
▶	Classic	220053.1
	Supreme	208197
	Chicken	195919.5
	Veggie	193690.45

CATEGORY WISE TOTAL PIZZAS SOLD

```
SELECT PT.category AS Pizza_Category, SUM(OD.quantity) AS Total_Pizzas_Sold
FROM order_details AS OD
LEFT JOIN pizzas AS P ON OD.pizza_id = P.pizza_id
LEFT JOIN pizza_types AS PT ON P.pizza_type_id = PT.pizza_type_id
GROUP BY Pizza_Category
ORDER BY Total_Pizzas_Sold DESC;
```

Result Grid | Filter Rows:

	Pizza_Category	Total_Pizzas_Sold
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

REVENUE BY PIZZA SIZE

```
SELECT P.size, ROUND(SUM(OD.quantity * P.price), 2) AS Rev_Size
FROM order_details AS OD
LEFT JOIN pizzas AS P ON OD.pizza_id = P.pizza_id
GROUP BY P.size
ORDER BY Rev_Size DESC;
```

size	Rev_Size
L	375318.7
M	249382.25
S	178076.5
XL	14076
XXL	1006.6

REVENUE BY TOP MOSTLY SOLD PIZZA TYPE

```
SELECT PT.pizza_type_id, ROUND(SUM(OD.quantity * P.price), 2) AS Rev_PTyp_ID
FROM order_details AS OD
LEFT JOIN pizzas AS P ON OD.pizza_id = P.pizza_id
LEFT JOIN pizza_types AS PT ON PT.pizza_type_id = P.pizza_type_id
GROUP BY PT.pizza_type_id
ORDER BY Rev_PTyp_ID DESC
LIMIT 5;
```

pizza_type_id	Rev_PTyp_ID
thai_ckn	43434.25
bbq_ckn	42768
cali_ckn	41409.5
classic_dlx	38180.5
spicy_ital	34831.25
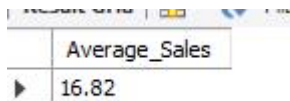
REVENUE BY MOSTLY SOLD SIZE WISE

```
SELECT PT.pizza_type_id AS Pizza_Type, P.size AS Pizza_Size, ROUND(SUM(OD.quantity * P.price), 2) AS Rev_PTyp_ID
FROM order_details AS OD
LEFT JOIN pizzas AS P ON OD.pizza_id = P.pizza_id
LEFT JOIN pizza_types AS PT ON PT.pizza_type_id = P.pizza_type_id
GROUP BY Pizza_Type, Pizza_Size
ORDER BY Rev_PTyp_ID DESC
LIMIT 5;
```

Pizza_Type	Pizza_Size	Rev_PTyp_ID
thai_ckn	L	29257.5
five_cheese	L	26066.5
four_cheese	L	23622.2
spicy_ital	L	23011.75
big_meat	S	22968

AVERAGE SALE OF PIZZAS

SELECT ROUND((SUM(OD.quantity * P.price) / COUNT(O.order_id)), 2) AS Average_Sales
FROM order_details AS OD
LEFT JOIN pizzas AS P ON OD.pizza_id = P.pizza_id
LEFT JOIN orders AS O ON OD.order_id = O.order_id;

Average_Sales
16.82

AVERAGE PRICE PER PIZZA
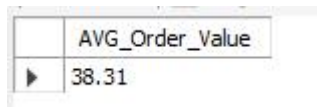
SELECT ROUND(SUM(OD.quantity * P.price) / SUM(OD.quantity), 2) AS AVG_Price_Per_Pizza
FROM order_details AS OD
LEFT JOIN pizzas AS P ON P.pizza_id = OD.pizza_id;

AVG_Price_Per_Pizza
16.5

AVERAGE ORDER VALUES

SELECT ROUND(SUM(OD.quantity * P.price) / COUNT(DISTINCT O.order_id), 2) AS AVG_Order_Value
FROM order_details AS OD
LEFT JOIN orders AS O ON OD.order_id = O.order_id
LEFT JOIN pizzas AS P ON OD.pizza_id = P.pizza_id;

AVG_Order_Value
38.31

AVERAGE PIZZA PER ORDER

SELECT ROUND(SUM(quantity) / COUNT(DISTINCT order_id), 2) AS AVG_Pizzas_Per_Order
FROM order_details;

AVG_Pizzas_Per_Order
2.32

TOP SELLING PIZZAS

```
SELECT PT.name AS Pizza_Name, P.size AS Pizza_Size, COUNT(OD.quantity) AS Total_Quantity_Sold
FROM pizza_types AS PT
LEFT JOIN pizzas AS P ON PT.pizza_type_id = P.pizza_type_id
LEFT JOIN order_details AS OD ON OD.pizza_id = P.pizza_id
GROUP BY Pizza_Name, Pizza_Size
ORDER BY Total_Quantity_Sold DESC
LIMIT 5;
```

Pizza_Name	Pizza_Size	Total_Quantity_Sold
The Big Meat Pizza	S	1811
The Thai Chicken Pizza	L	1365
The Five Cheese Pizza	L	1359
The Four Cheese Pizza	L	1273
The Classic Deluxe Pizza	M	1159

```
SELECT PT.category AS Pizza_Category, PT.name AS Pizza_Name, P.size AS Pizza_Size, COUNT(OD.quantity) AS
Total_Quantity_Sold, ROUND(SUM(OD.quantity * P.price), 2) AS Price
FROM pizza_types AS PT
LEFT JOIN pizzas AS P ON PT.pizza_type_id = P.pizza_type_id
LEFT JOIN order_details AS OD ON OD.pizza_id = P.pizza_id
GROUP BY Pizza_Category, Pizza_Name, Pizza_Size, Price
ORDER BY Price DESC
LIMIT 5;
```
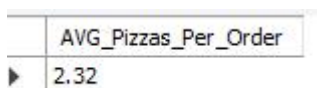
Pizza_Category	Pizza_Name	Pizza_Size	Total_Quantity_Sold	Price
Chicken	The Thai Chicken Pizza	L	1365	29257.5
Veggie	The Five Cheese Pizza	L	1359	26066.5
Veggie	The Four Cheese Pizza	L	1273	23622.2
Supreme	The Spicy Italian Pizza	L	1088	23011.75
Classic	The Big Meat Pizza	S	1811	22968

PECK SALES PERIODS BY DAY AND TIME

```
SELECT DAYNAME(O.date) AS Day_of_Week, ROUND(SUM(OD.quantity * P.price), 2) AS Total_Sales
FROM orders AS O
LEFT JOIN order_details AS OD ON O.order_id = OD.order_id
LEFT JOIN pizzas AS P ON OD.pizza_id = P.pizza_id
GROUP BY Day_of_Week
ORDER BY Total_Sales DESC;
```

Day_of_Week	Total_Sales
Friday	136073.9
Thursday	123528.5
Saturday	123182.4
Wednesday	114408.4
Tuesday	114133.8
Monday	107329.55
Sunday	99203.5

SELECT HOUR(O.time) AS Hours_of_Day, ROUND(SUM(OD.quantity * P.price), 2) AS Total_Sales
FROM orders AS O
LEFT JOIN order_details AS OD ON O.order_id = OD.order_id
LEFT JOIN pizzas AS P ON OD.pizza_id = P.pizza_id
GROUP BY Hours_of_Day
ORDER BY Total_Sales DESC;

Hours_of_Day	Total_Sales
12	111877.9
13	106065.7
18	89296.85
17	86237.45
19	72628.9
16	70055.4
14	59201.4
20	58215.4
15	52992.3
11	44935.8
21	42029.8
22	22815.15
23	1121.35
10	303.65
9	83

LARGE ORDERS RECEIVE

SELECT DATE(date) AS Order_Date, COUNT(DISTINCT order_id) AS Total_Orders
FROM orders
GROUP BY Order_Date
ORDER BY Total_Orders DESC
LIMIT 5;

Order_Date	Total_Orders
2015-11-27	115
2015-11-26	113
2015-10-15	107
2015-07-04	105
2015-05-15	94

LEAST ORDERS RECEIVE

SELECT DATE(date) AS Order_Date, COUNT(DISTINCT order_id) AS Total_Orders
FROM orders
GROUP BY Order_Date
ORDER BY Total_Orders ASC
LIMIT 5;

Order_Date	Total_Orders
2015-12-29	27
2015-12-30	32
2015-12-27	35
2015-03-22	37
2015-02-22	37

MOST FREQUENTLY ORDERED PIZZAS

SELECT PT.name AS Pizza_Name, P.pizza_type_id AS Pizza_Type, P.size AS Pizza_Size, COUNT(OD.quantity) AS
Total_Quantity
FROM pizza_types AS PT
LEFT JOIN pizzas AS P ON PT.pizza_type_id = P.pizza_type_id
LEFT JOIN order_details AS OD ON OD.pizza_id = P.pizza_id
GROUP BY Pizza_Name, Pizza_Type, Pizza_Size
ORDER BY Total_Quantity DESC
LIMIT 10;

Pizza_Name	Pizza_Type	Pizza_Size	Total_Quantity
The Big Meat Pizza	big_meat	S	1811
The Thai Chicken Pizza	thai_ckn	L	1365
The Five Cheese Pizza	five_cheese	L	1359
The Four Cheese Pizza	four_cheese	L	1273
The Classic Deluxe Pizza	classic_dlx	M	1159
The Spicy Italian Pizza	spicy_ital	L	1088
The Hawaiian Pizza	hawaiian	S	1001
The Southwest Chicken Pizza	southw_ckn	L	993
The Barbecue Chicken Pizza	bbq_ckn	L	967
The Barbecue Chicken Pizza	bbq_ckn	M	926

LEAST FREQUENTLY ORDERED PIZZAS

SELECT PT.name AS Pizza_Name, P.pizza_type_id AS Pizza_Type, P.size AS Pizza_Size, COUNT(OD.quantity) AS Total_Quantity
FROM pizza_types AS PT
LEFT JOIN pizzas AS P ON PT.pizza_type_id = P.pizza_type_id
LEFT JOIN order_details AS OD ON OD.pizza_id = P.pizza_id
GROUP BY Pizza_Name, Pizza_Type, Pizza_Size
ORDER BY Total_Quantity ASC
LIMIT 10;

Pizza_Name	Pizza_Type	Pizza_Size	Total_Quantity
The Four Cheese Pizza	four_cheese	S	0
The Big Meat Pizza	big_meat	L	0
The Five Cheese Pizza	five_cheese	M	0
The Five Cheese Pizza	five_cheese	S	0
The Big Meat Pizza	big_meat	M	0
The Greek Pizza	the_greek	XXL	28
The Green Garden Pizza	green_garden	L	94
The Chicken Alfredo Pizza	ckn_alfredo	S	96
The Calabrese Pizza	calabrese	S	99
The Mexicana Pizza	mexicana	S	160

MONTHLY ORDER TREND

SELECT MONTHNAME(O.date) AS Order_Month, COUNT(DISTINCT O.order_id) AS Total_Orders,
ROUND(SUM(OD.quantity * P.price)) AS Total_Revenue
FROM orders AS O
LEFT JOIN order_details AS OD ON O.order_id = OD.order_id
LEFT JOIN pizzas AS P ON OD.pizza_id = P.pizza_id
GROUP BY Order_Month
ORDER BY Total_Revenue DESC;

Order_Month	Total_Orders	Total_Revenue
July	1935	72558
May	1853	71403
March	1840	70397
November	1792	70395
January	1845	69793
April	1799	68737
August	1841	68278
June	1773	68230
February	1685	65160
December	1680	64701
September	1661	64180
October	1646	64028