PIZZA SALES ANALYSIS USING SQL

UNLOCKING BUSINESS I NSIGHTS FROM RAW DATA

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WELCOME
OUR PIZZA HUT

description here

ANALYZING 1 YEAR OF PIZZA
SALES DATA TO FIND OUT
TOP - SELLING
PRODUCTS,REVENUE,TREND
S AND CUSTOMER PRESENCE

DATABASE ARCHITECTURE

ENVIRONMENT - MySQL/SQL SERVER (My SQL Workbench 8.0 CE).

STRUCTURE - RELATIONAL DATABASE (RDBMS).

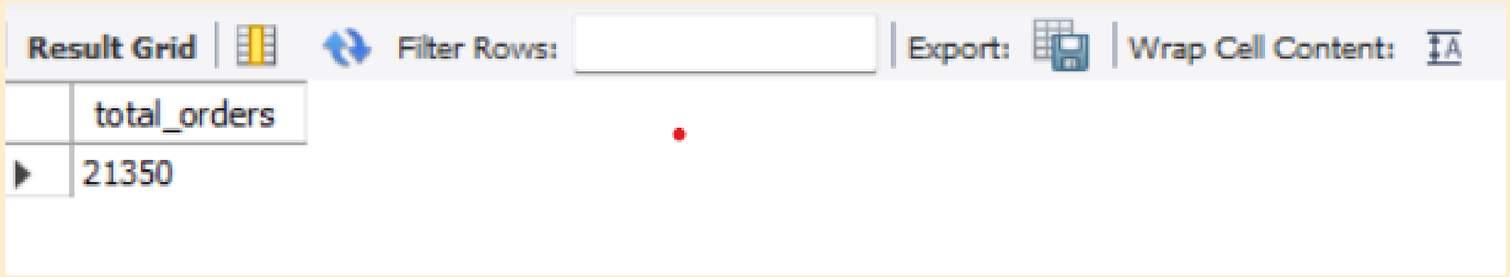
TABLES USED - 4 Tables (Orders,Order_details, Pizzas, Pizza Types).

DATA INTERGRITY - Primary keys & Foreign Keys were used to connect tables.

SCALE - Handling 48,000+ records for analysis.

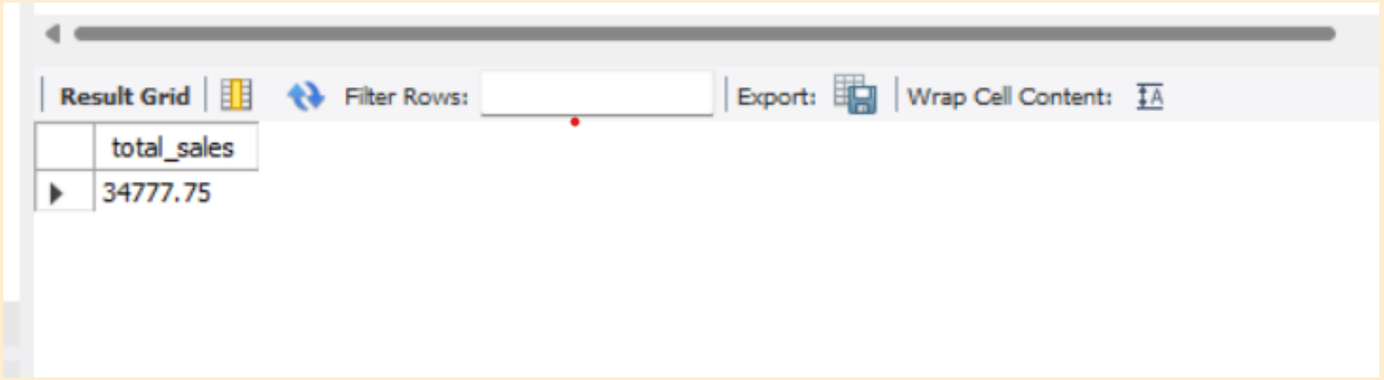
1.RETRIVE THE TOTAL NUMBER OF ORDER PLACED.

```sql
SELECT count(order_id)as total_orders from orders;
```



2. CALCULATE THE TOTAL REVENUE GENERATRED FROM PIZZA SALES.

```
3   SELECT
4       ROUND(SUM(order_details.quantity * pizzas.price),
5               2) AS total_sales
6   FROM
7       order_details
8           JOIN
9       pizzas ON pizzas.pizza_id = order_details.pizza_id
```



3. IDENTIFY THE HIGHEST PRICE OF PIZZA.

```
2
3 •   SELECT
4         pizza_types.name, pizzas.price
5     FROM
6         pizza_types
7             JOIN
8         pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9     ORDER BY pizzas.price DESC limit 1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

name	price
The Greek Pizza	35.95

4. IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```sql
SELECT
    COUNT(order_details.order_details_id) AS order_count
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC;
```

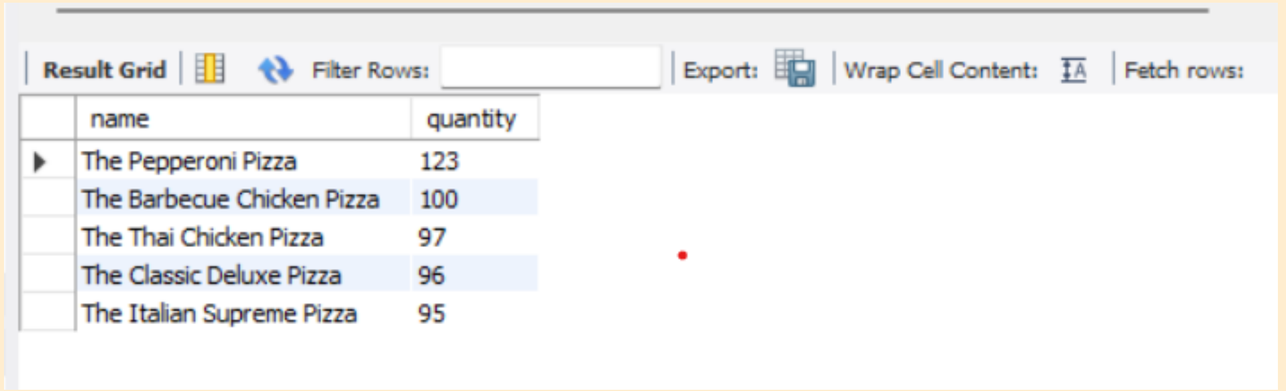
Execute the selected portion of the script or everything, if there is no selection

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

size	order_count
L	802
M	664
S	568
XL	27

5. LIST THE FIVE MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```sql
SELECT
    pizza_types.name, SUM(order_details.quantity) AS quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC
LIMIT 5;
```



Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

name	quantity
The Pepperoni Pizza	123
The Barbecue Chicken Pizza	100
The Thai Chicken Pizza	97
The Classic Deluxe Pizza	96
The Italian Supreme Pizza	95

6.TOTAL QUANTITY OF EACH PIZZA CATEGORY.

```sql
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY quantity DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

category	quantity
Classic	615
Supreme	534
Veggie	501
Chicken	452

7.DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
3 •   SELECT
4         HOUR(order_time), COUNT(order_id) AS order_count
5     FROM
6         orders
7     GROUP BY (order_time);
```

Result Grid | Filter Rows:

HOUR(order_time)	order_count
12	2
12	1
12	2
12	2
12	1
12	1
12	1
13	1
13	3
13	1
13	2
13	2
13	1
13	1
14	1

8.CATEGORY WISE DISTRIBUTION OF PIZZAS.

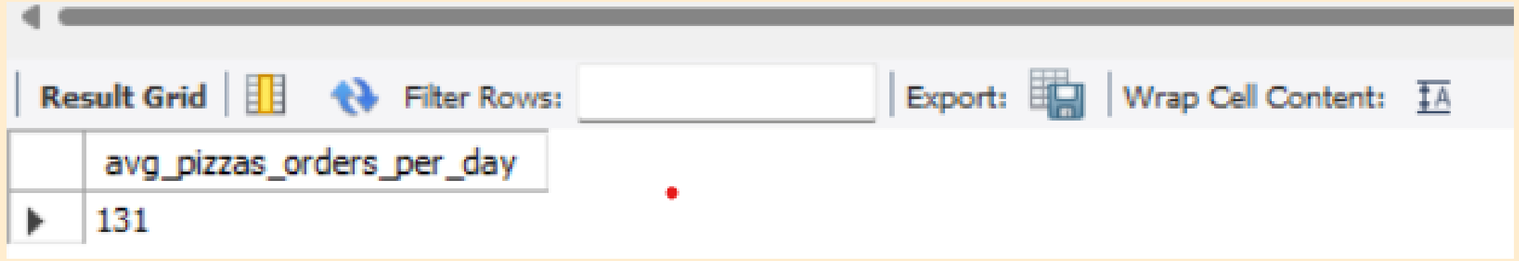
```
2    SELECT
3        category, COUNT(name)
4    FROM
5        pizza_types
6    GROUP BY category
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

category	count(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9

9.GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
2
3 •   SELECT
4         ROUND(AVG(quantity), 0) as avg_pizzas_orders_per_day
5     FROM
6         (SELECT
7             orders.order_date, SUM(order_details.quantity) AS quantity
8         FROM
9             orders
0         JOIN order_details ON orders.order_id = order_details.order_id
1         GROUP BY orders.order_date) AS order_quantity;
```



10.TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```sql
SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```

Result Grid | Filter Rows: | Export:

name	revenue
The Thai Chicken Pizza	1808.75
The Barbecue Chicken Pizza	1783
The Italian Supreme Pizza	1684

THANK YOU FOR READING

I'M CONSTANTLY LEARNING AND BUILDING . IF YOU HAVE ANY FEEDBACK OR WANT TO DISCUSS DATA ANALYTICS,I'D LOVE TO CONNECT .

CURRENTLY LEARNING :- WINDOW FUNCTIONS & POWER BI
NEXT PROJECT COMING VERYY SOON.

LET'S CONNECT GUYS..

~ ADHIRAJ GHOSH