



SQL

SALES REPORT

ON PIZZABURG

20
24

presented by
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INTRODUCTION

Hello my name is omor faruk shrabon. The Pizzaburg Sales SQL Project is a database system designed to analyze sales data for a fictional pizza restaurant, "Pizzaburg." This project focuses on managing and analyzing the sales of various pizza types across different categories. It aims to provide insights into the restaurant's revenue, customer preferences, and product performance.

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RETRIVE THE TOTAL NUMBER OF ORDER PLACED.

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- ```
SELECT
 COUNT(order_id) AS total_order
FROM
 orders;
```

| Result Grid |             |
|-------------|-------------|
|             | total_order |
| ▶           | 21350       |

# CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT
 ROUND(SUM(orders_details.quantity * pizzas.price),
 2) AS total_revenue_sales
FROM
 orders_details
 JOIN
 pizzas ON pizzas.pizza_id = orders_details.pizza_id
```

| Result Grid |                     |
|-------------|---------------------|
|             | total_revenue_sales |
| ▶           | 817860.05           |



# IDENTIFY THE HIGHEST-PRICED PIZZA.

```
SELECT
 pizza_types.name, pizzas.price
FROM
 pizza_types
 JOIN
 pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

Result Grid | Filter Rows:

|   | name            | price |
|---|-----------------|-------|
| ▶ | The Greek Pizza | 35.95 |

# IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT
 pizzas.size,
 COUNT(orders_details.order_id) AS common_pizza_in_pizzaburg
FROM
 pizzas
 JOIN
 orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizzas.size
ORDER BY common_pizza_in_pizzaburg DESC;
```

| Result Grid |      | Filter Rows:              |
|-------------|------|---------------------------|
|             | size | common_pizza_in_pizzaburg |
| ▶           | L    | 18526                     |
|             | M    | 15385                     |
|             | S    | 14137                     |
|             | XL   | 544                       |
|             | XXL  | 28                        |

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

- **SELECT**

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

Result Grid | Filter Rows:  Export:

|   | name                       | quantity |
|---|----------------------------|----------|
| ▶ | The Classic Deluxe Pizza   | 2453     |
|   | The Barbecue Chicken Pizza | 2432     |
|   | The Hawaiian Pizza         | 2422     |
|   | The Pepperoni Pizza        | 2418     |
|   | The Thai Chicken Pizza     | 2371     |

# JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

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

|   | category | quantity |
|---|----------|----------|
| ▶ | Classic  | 14888    |
|   | Supreme  | 11987    |
|   | Veggie   | 11649    |
|   | Chicken  | 11050    |

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

```
select HOUR (order_time) AS hour,
count(order_id) as order_count
from orders
group by hour(order_time);
```

|   | hour | order_count |
|---|------|-------------|
| ▶ | 11   | 1231        |
|   | 12   | 2520        |
|   | 13   | 2455        |
|   | 14   | 1472        |
|   | 15   | 1468        |
|   | 16   | 1920        |
|   | 17   | 2336        |
|   | 18   | 2399        |
|   | 19   | 2009        |
|   | 20   | 1642        |
|   | 21   | 1198        |
|   | 22   | 663         |
|   | 23   | 28          |
|   | 10   | 8           |
|   | 9    | 1           |

# JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

```
select category, count(name) from pizza_types
group by category;
```

Result Grid | Filter Rows:

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

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

```
SELECT
 ROUND(AVG(quantity), 0) AS avg_pizza_order_per_day
FROM
 (SELECT
 orders.order_date, SUM(orders_details.quantity) AS quantity
 FROM
 orders
 JOIN orders_details ON orders.order_id = orders_details.order_id
 GROUP BY orders.order_date) AS order_quantity;
```

| avg_pizza_order_per_day |
|-------------------------|
| 138                     |

# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

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

|   | name                         | REVENUE  |
|---|------------------------------|----------|
| ▶ | The Thai Chicken Pizza       | 43434.25 |
|   | The Barbecue Chicken Pizza   | 42768    |
|   | The California Chicken Pizza | 41409.5  |

# CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

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```
select pizza_types.category,
 (sum(orders_details.quantity*pizzas.price) / (select
 ROUND(SUM(orders_details.quantity * pizzas.price),
 2) AS total_revenue_sales
 FROM
 orders_details
 JOIN
 pizzas ON pizzas.pizza_id = orders_details.pizza_id)) *100 as revenue
 from pizza_types join pizzas
 on pizza_types.pizza_type_id = pizzas.pizza_type_id
 join orders_details
 on orders_details.pizza_id = pizzas.pizza_id
 group by pizza_types.category order by revenue desc;
```

|   | category | revenue            |
|---|----------|--------------------|
| ▶ | Classic  | 26.90596025566967  |
|   | Supreme  | 25.45631126009862  |
|   | Chicken  | 23.955137556847287 |
|   | Veggie   | 23.682590927384577 |

# ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

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```
select order_date,
sum(revenue) over(order by order_date) as cum_revenue
from
(select orders.order_date,
sum(orders_details.quantity * pizzas.price) as revenue
from orders_details join pizzas
on orders_details.pizza_id = pizzas.pizza_id
join orders
on orders.order_id = orders_details.order_id
group by orders.order_date)as sales;
```

| order_date | cum_revenue        |
|------------|--------------------|
| 2015-01-01 | 2713.8500000000004 |
| 2015-01-02 | 5445.75            |
| 2015-01-03 | 8108.15            |
| 2015-01-04 | 9863.6             |
| 2015-01-05 | 11929.55           |
| 2015-01-06 | 14358.5            |
| 2015-01-07 | 16560.7            |
| 2015-01-08 | 19399.05           |
| 2015-01-09 | 21526.4            |
| 2015-01-10 | 23990.35000000002  |
| 2015-01-11 | 25862.65           |
| 2015-01-12 | 27781.7            |
| 2015-01-13 | 29831.30000000003  |
| 2015-01-14 | 32358.70000000004  |
| 2015-01-15 | 34343.50000000001  |

# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

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```
SELECT name, revenue
FROM (
 SELECT
 category,
 name,
 revenue,
 RANK() OVER (PARTITION BY category ORDER BY revenue DESC) AS rn
 FROM (
 SELECT
 pizza_types.category,
 pizza_types.name,
 SUM(orders_details.quantity * pizzas.price) AS revenue
 FROM pizza_types
 JOIN pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
 JOIN orders_details ON orders_details.pizza_id = pizzas.pizza_id
 GROUP BY pizza_types.category, pizza_types.name
) AS a
) AS b
WHERE rn <= 3;
```

|   | name                         | revenue           |
|---|------------------------------|-------------------|
| ▶ | The Thai Chicken Pizza       | 43434.25          |
|   | The Barbecue Chicken Pizza   | 42768             |
|   | The California Chicken Pizza | 41409.5           |
|   | The Classic Deluxe Pizza     | 38180.5           |
|   | The Hawaiian Pizza           | 32273.25          |
|   | The Pepperoni Pizza          | 30161.75          |
|   | The Spicy Italian Pizza      | 34831.25          |
|   | The Italian Supreme Pizza    | 33476.75          |
|   | The Sicilian Pizza           | 30940.5           |
|   | The Four Cheese Pizza        | 32265.70000000065 |
|   | The Mexicana Pizza           | 26780.75          |
|   | The Five Cheese Pizza        | 26066.5           |

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# THANK YOU!



Thank you for your attention to pizzaburg sales report presentation. If you have any questions or would like to discuss the findings in more detail.