

WELCOME TO SQL PROJECT ON PIZZA HUT SALES

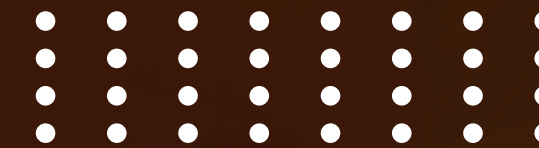
**ORDER
NOW**



WHAT'S IN THIS

Hello, I am Rokonujjaman Reon. In this project, I analyzed Pizzahut sales data using SQL to uncover key trends and insights. My focus was on querying, aggregating, and interpreting data to optimize sales strategies and bussiness performance





ABOUT MY PROJECT

Analyzed Pizzahut sales data using SQL, solving over 10 complex queries to uncover key trends and insights. The results contributed to effective bussiness strategy development, driving improvements in sales performance and decision -making



1. RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

```
SELECT  
    COUNT(order_id) AS Total_orders  
FROM  
    orders;
```

| | Total_orders |
|---|--------------|
| ▶ | 21350 |



2 . Calculate the total revenue generated from pizza sales.

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

| | total_sales |
|---|-------------|
| ▶ | 817860.05 |



3. 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;
```

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



4. Identify the most common pizza size ordered.

```
SELECT
    pizzas.size,
    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;
```

| | size | order_count |
|---|------|-------------|
| ▶ | L | 18526 |
| | M | 15385 |
| | S | 14137 |
| | XL | 544 |
| | XXL | 28 |



5. List the top 5 most ordered pizza types along with their quantities.

```
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;
```

| | 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 |



6. Join the necessary tables to find the total quantity of each pizza category ordered.

```
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;
```

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



7. 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)
ORDER BY order_count desc;
```

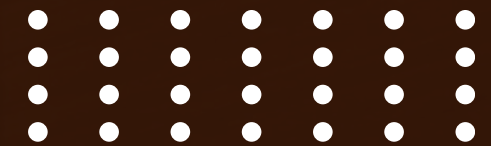
| | hour | order_count |
|---|------|-------------|
| ► | 12 | 2520 |
| | 13 | 2455 |
| | 18 | 2399 |
| | 17 | 2336 |
| | 19 | 2009 |
| | 16 | 1920 |
| | 20 | 1642 |
| | 14 | 1472 |
| | 15 | 1468 |
| | 11 | 1231 |
| | 21 | 1198 |
| | 22 | 663 |
| | 23 | 28 |
| | 10 | 8 |
| | 9 | 1 |



8. Join relevant tables to find the category-wise distribution of pizzas.

```
SELECT  
    category, COUNT(name)  
FROM  
    pizza_types  
GROUP BY category  
ORDER BY COUNT(name) DESC;
```

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



9. Group the orders by date and calculate the average number of pizzas ordered per day.

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

| | avg_pizza_ordered_per_day |
|---|---------------------------|
| ▶ | 138 |



10. Determine the top 3 most ordered pizza types based on revenue.

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) AS revenue
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 revenue DESC
LIMIT 3;
```

| | name | revenue |
|---|------------------------------|----------|
| ► | The Thai Chicken Pizza | 43434.25 |
| | The Barbecue Chicken Pizza | 42768 |
| | The California Chicken Pizza | 41409.5 |



11. Calculate the percentage contribution of each pizza type to total revenue.

```
SELECT
    pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(order_details.quantity * pizzas.price),
            2) AS total_sales
    FROM
        order_details
        JOIN
            pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,
    2) AS revenue_percent
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 revenue_percent DESC;
```

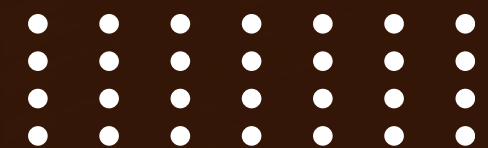
| | category | revenue_percent |
|---|----------|-----------------|
| ► | Classic | 26.91 |
| | Supreme | 25.46 |
| | Chicken | 23.96 |
| | Veggie | 23.68 |



12. Analyze the cumulative revenue generated over time.

```
SELECT
    order_date,
    SUM(revenue) over(order by order_date) as cum_revenue
from
    (select orders.order_date,
     SUM(order_details.quantity * pizzas.price) AS revenue
     FROM order_details
JOIN pizzas
    ON pizzas.pizza_id = order_details.pizza_id
JOIN orders
    ON orders.order_id = order_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 |



13. Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```
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((order_details.quantity)*pizzas.price) as revenue
  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,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 |

**THANK YOU
FOR ATTENTION**

