

# PIZZA TIME

PIZZA SALES PROJECT

*Cashback*  
**UP TO  
40%**





**"HELLO, MY NAME IS MUHAMMAD AHMAD ALI. IN THIS PROJECT, I UTILIZED SQL QUERIES TO ANALYZE PIZZA SALES DATA. THE GOAL WAS TO ANSWER BUSINESS-RELATED QUESTIONS SUCH AS IDENTIFYING BEST-SELLING PIZZAS, DETERMINING PEAK SALES PERIODS, AND CALCULATING MONTHLY REVENUE. I APPLIED SQL TECHNIQUES INCLUDING JOINS, GROUP BY, AND AGGREGATE FUNCTIONS. THIS PROJECT HELPED ME GAIN HANDS-ON EXPERIENCE WITH DATA ANALYSIS AND PROVIDED VALUABLE INSIGHTS INTO SALES TRENDS. IT ALSO STRENGTHENED MY UNDERSTANDING OF SQL AND HOW TO USE IT EFFECTIVELY IN REAL-WORLD SCENARIOS."**

# # RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

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

|   | total_orders |
|---|--------------|
| ▶ | 21350        |

# 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   |

# # 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 |

# # IDENTIFY THE MOST COMMON PIZZA SIZE ORDERD.

```
• 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          |

# # LIST OF 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     |

# # JOIN THE NECESSARY TABLE 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  | 11649    |



# # 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
```

|   | 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_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                       |

# 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 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;
```

|   | 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.

```
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
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 DESC;
```

|   | category | revenue |
|---|----------|---------|
| ▶ | Classic  | 26.91   |
|   | Supreme  | 25.46   |
|   | Chicken  | 23.96   |
|   | Veggie   | 23.68   |

# # 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 order_details.pizza_id = pizzas.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            |
|   | 2015-01-10 | 23990.350000000002 |
|   | 2015-01-11 | 25862.65           |
|   | 2015-01-12 | 27781.7            |
|   | 2015-01-13 | 29831.300000000003 |

# 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        | 32265.700000000065 |
|   | The Mexicana Pizza           | 26780.75           |
|   | The Five Cheese Pizza        | 26066.5            |