



SQL PROJECT ON PIZZA SALES

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INTRODUCTION

Hello, My name is Abhay Pratap Singh. In this Project I had utilized SQL query to solve Question that were related to Pizza Sales.



RETRIEVE THE TOTAL NUMBER OF ORDERS PALCED.

```
-- Retrieve the total number of orders palced.
```

```
SELECT
```

```
    COUNT(order_id) AS total_orders
```

```
FROM
```

```
orders;
```

	total_orders
▶	21350



CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
-- 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
▶	356723.85



IDENTIFY THE HIGHEST-PRICED PIZZA.

```
-- 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 ORDERED.

```
-- 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	7893
	M	6827
	S	6507
	XL	115
	XXL	8



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

```
-- 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 Barbecue Chicken Pizza	2329
	The California Chicken Pizza	1721
	The Big Meat Pizza	1695
	The Classic Deluxe Pizza	1506
	The Hawaiian Pizza	1166



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

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

```
SELECT
```

```
    pizza_types.category,  
    SUM(order_details.quantity) AS total_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 total_quantity DESC;
```

	category	total_quantity
▶	Classic	6975
	Chicken	6238
	Veggie	4357
	Supreme	4134



DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
-- 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



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

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

```
SELECT
    category, COUNT(name) AS total_count
FROM
    pizza_types
GROUP BY category;
```

	category	total_count
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



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

```
-- 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
▶	61



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

```
-- 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 Barbecue Chicken Pizza	41230.75
	The California Chicken Pizza	30102.75
	The Classic Deluxe Pizza	23548



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

```
-- 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 pizzas.pizza_type_id = pizza_types.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
▶	Chicken	30.8
	Classic	28.06
	Supreme	20.63
	Veggie	20.51



ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
-- 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 order by order_date)
as sales;
```

	order_date	cum_revenue
▶	2015-01-01	1136.35000000000001
	2015-01-02	2245.85000000000004
	2015-01-03	3374.85000000000004
	2015-01-04	4260.15000000000001
	2015-01-05	5159.1
	2015-01-06	6232.3
	2015-01-07	7195.25
	2015-01-08	8352.4
	2015-01-09	9386.85
	2015-01-10	10501.15
	2015-01-11	11341.949999999999



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

```
-- 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 Barbecue Chicken Pizza	41230.75
	The California Chicken Pizza	30102.75
	The Chicken Alfredo Pizza	11606
	The Classic Deluxe Pizza	23548
	The Big Meat Pizza	20340
	The Hawaiian Pizza	15546.5
	The Italian Supreme Pizza	14359.75
	The Calabrese Pizza	12463.5
	The Brie Carre Pizza	9057.9499999999937
	The Four Cheese Pizza	17526.5500000000232
	The Five Cheese Pizza	15299.5
	The Mexicana Pizza	9428.5

The image features a dark red background with several overlapping, semi-transparent hexagonal shapes of varying sizes and positions. The text "THANK YOU" is centered in a bold, white, sans-serif font. There are also five small, solid dark red hexagons scattered across the background: one in the upper left, one in the upper right, one in the middle right, one in the lower right, and one in the lower left.

THANK YOU