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SQL PROJECT

ON PIZZA SALES

Presented By-

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INTRODUCTION

Hello! My name is Vikas G R, and I am excited to share my project on creating a comprehensive **Pizza Sales Report** using SQL. This project involves analyzing pizza sales data through queries that provide insights into various aspects of the sales process. The report highlights key metrics, such as the most popular pizza types and sales trends over time. By leveraging SQL's capabilities, I uncover valuable information to inform business decisions and optimize sales strategies.

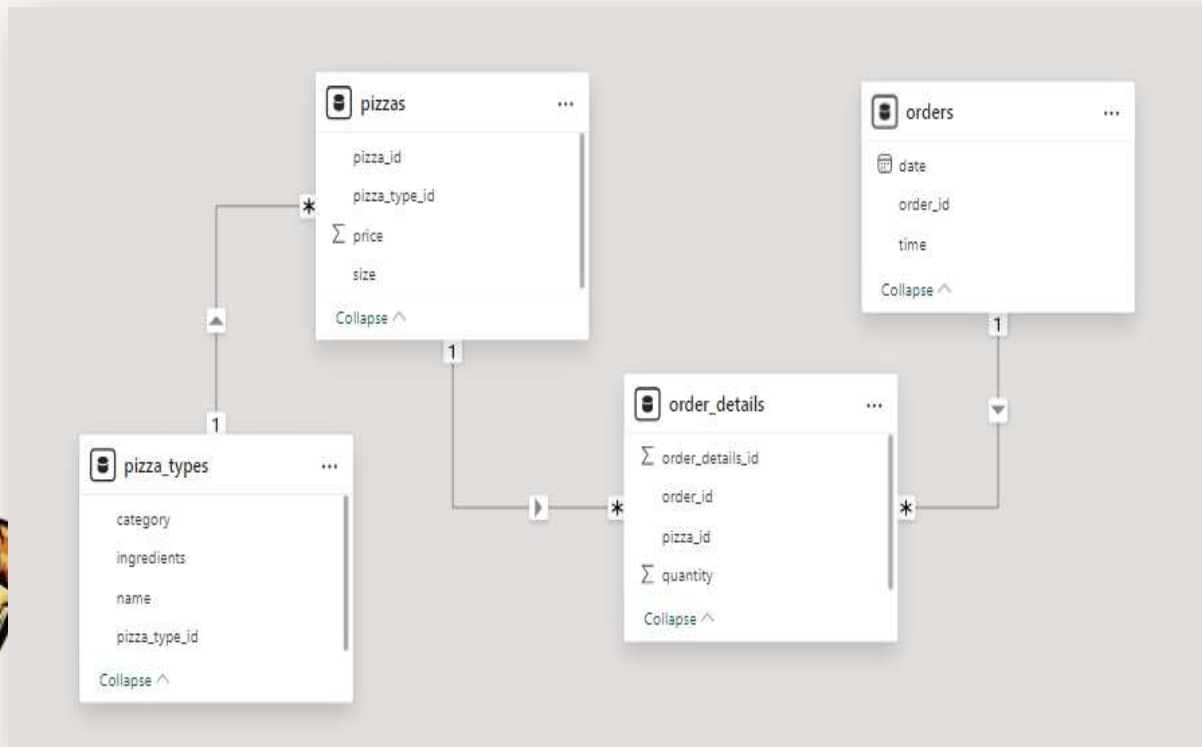
https://github.com/Vikasgr36/Pizza_Sales---SQL



—Key Queries Addressed

- Retrieve the total number of orders placed.
 - Calculate the total revenue generated from pizza sales.
 - Identify the highest-priced pizza.
 - Identify the most common pizza size ordered.
 - List the top 5 most ordered pizza types along with their quantities.
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- Join the necessary tables to find the total quantity of each pizza category ordered.
 - Determine the distribution of orders by hour of the day.
 - Join relevant tables to find the category-wise distribution of pizzas.
 - Group the orders by date and calculate the average number of pizzas ordered per day.
 - Determine the top 3 most ordered pizza types based on revenue.
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- Calculate the percentage contribution of each pizza type to total revenue.
 - Analyze the cumulative revenue generated over time.
 - Determine the top 3 most ordered pizza types based on revenue for each pizza category.





Question 1



Retrieve the total number of orders placed.

Query :

```
SELECT count(order_id) as Total_Orders FROM orders;
```

Result :

Result Grid	
	Total_Orders
▶	21350



Question 2

Calculate the total revenue generated from pizza sales.

Query :

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

Result :

Result Grid	
	Total_Revenue
▶	817860.05

Question 3

Identify the highest-priced pizza.

Query :

```
• 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 :

Result Grid			Filter Rows:
	name	price	
▶	The Barbecue Chicken Pizza	35.95	



Question 4

Identify the most common pizza size ordered.

Query :

```
• SELECT
    pizzas.size,
    COUNT(order_details.order_details_id) AS Total_Order_Count
FROM
    pizzas
    JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY Total_Order_Count DESC LIMIT 1;
```

Result :

	size	Total_Order_Count
▶	L	18526



Question 5

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

Query :

```
SELECT
    pizza_types.name,
    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.name
ORDER BY Total_Quantity DESC LIMIT 5;
```

Result :

Result Grid			Filter Rows:
	name	Total_Quantity	
▶	The Classic Deluxe Pizza	2453	
	The Barbecue Chicken Pizza	2432	
	The Hawaiian Pizza	2422	
	The Pepperoni Pizza	2418	
	The Thai Chicken Pizza	2371	



Question 6

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

Query :

```
• 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 pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.category
ORDER BY Total_Quantity DESC;
```

Result :

Result Grid			Filter Rows:
	category	Total_Quantity	
▶	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	



Question 7

Determine the distribution of orders by hour of the day.

Query :

```
SELECT
    HOUR(orders.order_time)
    AS Order_Hour,
    COUNT(orders.order_id)
    AS Orders
FROM
    orders
GROUP BY Order_Hour;
```

Result :

Result Grid			Filter Rows
	Order_Hour	Orders	
▶	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	

Question 8

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

Query :

```
• SELECT
    pizza_types.category AS Category,
    COUNT(pizza_types.name) AS Name
FROM
    pizza_types
GROUP BY Category;
```

Result :

Result Grid		
	Category	Name
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



Question 9

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

Query :

```
• SELECT ROUND(AVG(quantity), 0) AS Avg_Pizza_Ordered_Perday
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 Quantity;
```

Result :

Result Grid		Filter Rows:
	Avg_Pizza_Ordered_Perday	
▶	138	





Question 10

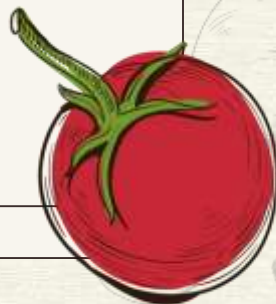
**Determine the top 3
most ordered pizza types
based on revenue.**

Query :

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

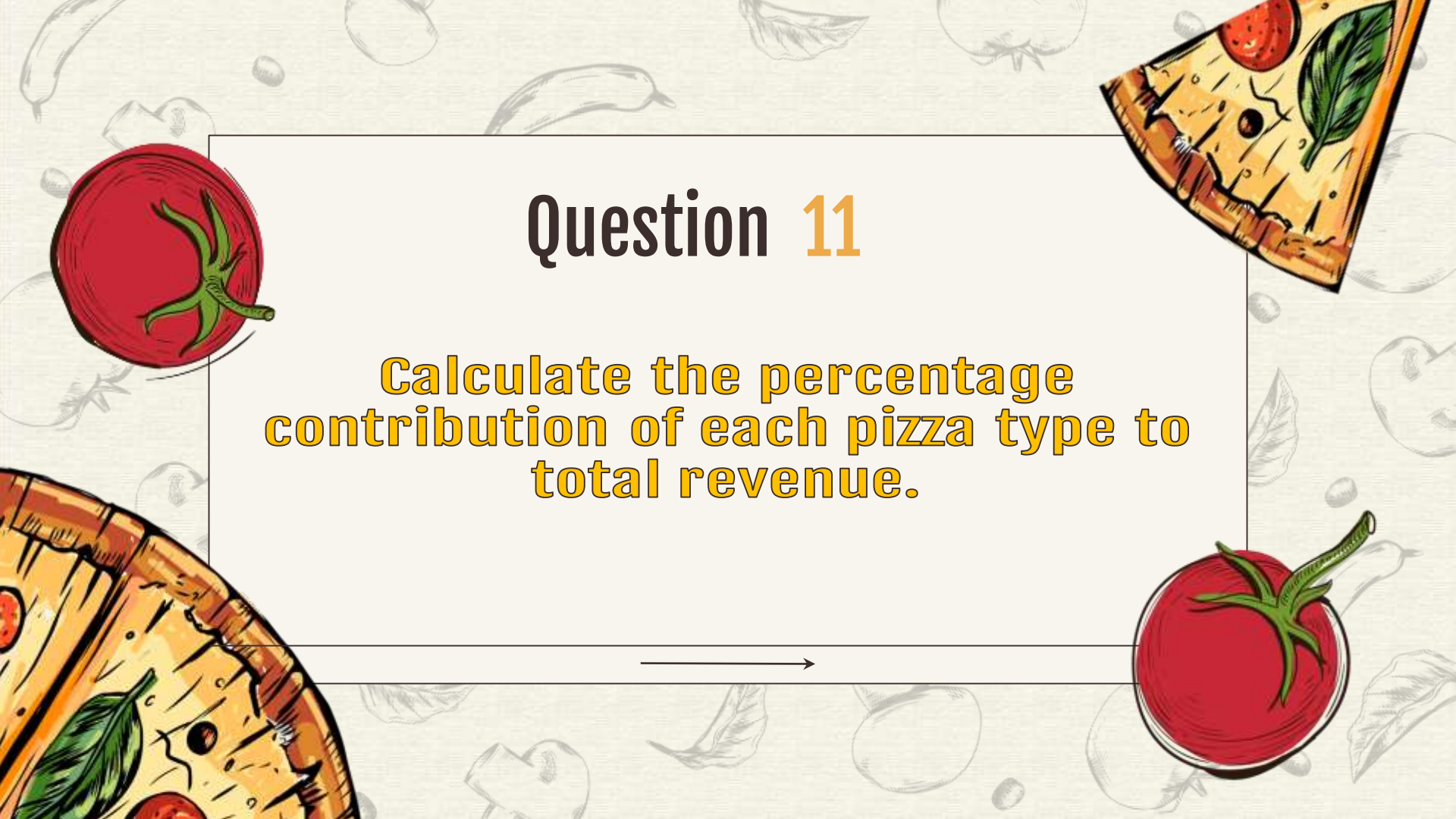
Result :

Result Grid			Filter Rows:
	Name	Revenue	
▶	The Thai Chicken Pizza	43434	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41410	



Question 11

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





Query :

```
• SELECT
    pizza_types.category AS Pizza_Type,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(order_details.quantity * pizzas.price),
            2)
        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;
```

Result :


Result Grid		Filter Rows:
	Pizza_Type	Revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68






Question 12

Analyze the cumulative revenue
generated over time.





Query :

```
• SELECT order_date,  
    sum(Revenue) OVER (ORDER BY order_date)  
    AS Cumulative_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 order_details.order_id = orders.order_id  
    GROUP BY orders.order_date) AS Sales;
```

Result :

Result Grid			Filter Rows:
	order_date	Cumulative_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	
	2015-01-14	32358.700000000004	
	2015-01-15	34343.500000000001	
	2015-01-16	36937.650000000001	
	2015-01-17	39001.750000000001	
	2015-01-18	40978.600000000006	
	2015-01-19	43365.750000000001	
	2015-01-20	45763.650000000001	
	2015-01-21	47804.200000000001	
	2015-01-22	50300.000000000001	



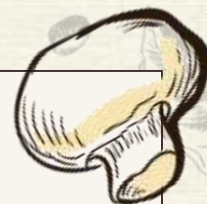
Question 13

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



Query :

Result :



```
• SELECT name, revenue
  FROM
  (SELECT category, name, revenue,
  RANK() OVER(PARTITION BY category
  ORDER BY revenue DESC) AS Rank_
  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 Rank_ <= 3;
```

Result Grid			Filter Rows:
	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

Do you have any
questions/suggestions?

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