

Date: 07/06/2024

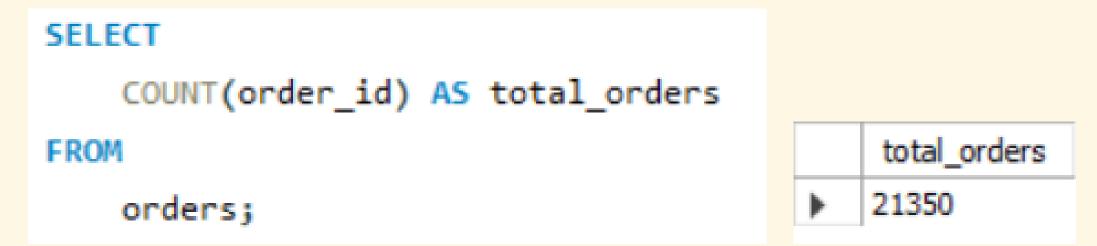
Introduction

• Objective: Demonstrate the use of SQL queries to extract and analyze pizza sales data.

• Scope: Execute various SQL queries to retrieve specific datasets and insights from the pizza sales database.

• Outcome: Identify key sales trends, top-performing pizzas, and sales performance across different time periods.

Retrieve the total number of orders placed.



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 order_details.pizza_id = pizzas.pizza_id;
```



Identify the highest-priced pizza.

name	price
The Greek Pizza	35.95

Identify the most common pizza size ordered.

	size	Frequently_ordered
 	L	18526





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

```
SELECT
    pizza_types.name, SUM(order_details.quantity) AS sum
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 name
ORDER BY sum DESC
LIMIT 5;
```

	name	sum
•	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(order_details.quantity) AS quantity
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 quantity DESC;
```

	category	quantity
•	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

Determine the distribution of orders by hour of the day.

```
SELECT
    HOUR(orders.order_time) as Order_Hour,
    SUM(order_details.quantity) AS orders
FROM
   orders
        JOIN
   order_details ON orders.order_id = order_details.order_id
GROUP BY Order_Hour;
-- (OR)
SELECT
    HOUR(order_time), COUNT(order_id) AS order_count
FROM
   orders
GROUP BY HOUR(order_time);
```

	Order_Hour	orders
•	11	2728
	12	6776
	13	6413
	14	3613
	15	3216
	16	4239
	17	5211
	18	5417
	19	4406
	20	3534
	21	2545
	22	1386
	23	68
	10	18
	9	4



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

```
SELECT

ROUND(AVG(sum_qty), 0) AS Average_Orders_per_day

FROM

(SELECT

orders.order_date, SUM(order_details.quantity) AS sum_qty

FROM

orders

JOIN order_details ON orders.order_id = order_details.order_id

GROUP BY orders.order_date) AS order_Quantity;
```

Average_Orders_per_day

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

```
SELECT
   pizza_types.name,
   SUM(order_details.quantity * pizzas.price) A5 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



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
Þ	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



INSIGHTS

Top 3 Pizzas by Revenue

1. The Thai Chicken Pizza

Revenue: \$43,434.25

Insight: The Thai Chicken Pizza is the highest-grossing pizza, indicating strong customer preference for

this unique flavor profile.

2. The Barbecue Chicken Pizza

Revenue: \$42,768.00

Insight: The Barbecue Chicken Pizza follows closely, showcasing its popularity and significant

contribution to overall sales.

3. The California Chicken Pizza

Revenue: \$41,409.50

Insight: The California Chicken Pizza ranks third, highlighting its appeal and consistent demand among

customers.