

Hello Data Geeks!!!

Michael here, I am a professional Data Analyst
Project Title - S&L analysis of Pizza Dataset

Questions

Basic:

- 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.

Intermediate:

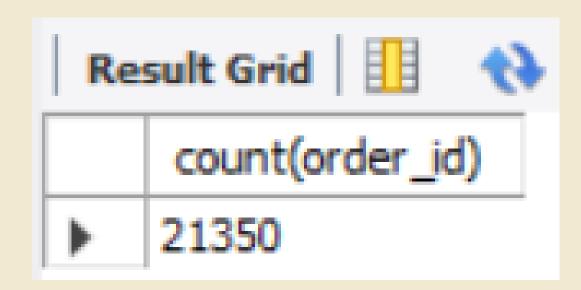
- Join the necessary tables to find the total quantity of each pizza category ordered.
- Determine the distribution of orders by hour of the day.
- Join relevant tables to find the category-wise distribution of pizzas.
- Group the orders by date and calculate the average number of pizzas ordered per day.
- Determine the top 3 most ordered pizza types based on revenue.

Advanced:

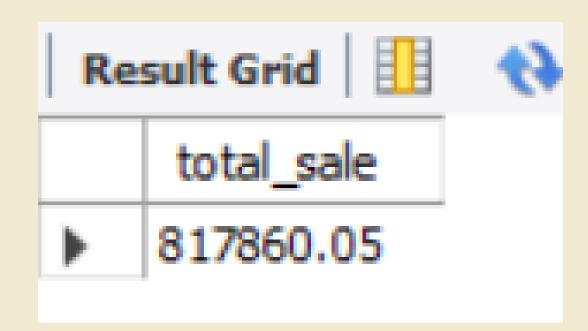
- Calculate the percentage contribution of each pizza type to total revenue.
- Analyze the cumulative revenue generated over time.
- Determine the top 3 most ordered pizza types based on revenue for each pizza category.

Retrieve the total number of orders placed.

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



Calculate the total revenue generated from pizza sales.



Identify the highest-priced pizza.

	name	price
•	The Greek Pizza	35.95

Identify the most common pizza size ordered.

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

	size	orders
•	L	18526

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

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

Quantity
14888
11987
11649
11050

Determine the distribution of orders by hour of the day.

SELECT

HOUR(orders.time)

AS Hour,

COUNT(order_id) AS Order_count

FROM

orders

GROUP BY hour;

	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

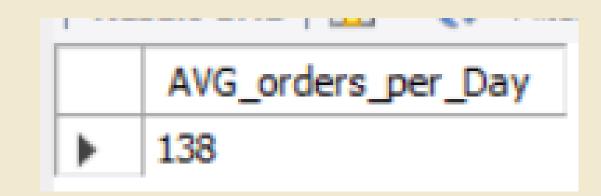
Toin relevant tables to find the category-wise distribution of pizzas.

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

		_
	category	pizzas
•	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_orders_per_Day
FROM
    (SELECT
        orders.date, SUM(order_details.quantity)
        AS quantity
    FROM
        orders
    JOIN order_details
    ON orders.order id = order details.order id
    GROUP BY orders.date) AS order_quantity;
```



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

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

category	percentage
Classic	26.90596025566967
Supreme	25.45631126009862
Chicken	23.955137556847287
Veggie	23.682590927384577

Analyze the cumulative revenue generated over time.

```
select date , sum(sales_per_day)
over(order by date) as cummulative_revenue from
(select orders.date ,
sum(pizzas.price*order_details.quantity)
as sales_per_day
from pizzas join order_details
on pizzas.pizza_id = order_details.pizza_id
join orders
on orders.order_id = order_details.order_id
group by orders.date) as sales;
```

date	cummulative_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

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

```
(select category , name , revenue ,
Rank() over(partition by category order by revenue desc)
as rn from
(select pizza_types.category , pizza_types.name,
sum(pizzas.price*order_details.quantity) as revenue
from pizzas join order_details
on pizzas.pizza_id = order_details.pizza_id
join pizza_types
on pizza_types
on pizza_types.pizza_type_id = pizzas.pizza_type_id
group by pizza_types.category , pizza_types.name) as a)
as b where rn<=3;</pre>
```

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