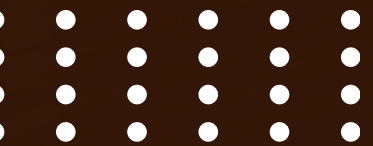


SQL PROJECT ON PIZZA SALES





HELLO !!

My name is Ankit Rimal.

In this project , I have utilized SQL queries to solve question that were related to pizza sales.

This MySQL database is designed for pizza sales analysis, storing order details, customer data, and pizza information to track sales trends, revenue, and customer preferences.

Retrieve the total number of orders placed.

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

Result Grid		Filter Rows:	
	total_orderss		
▶	21350		

Calculate the total revenue generated from pizza sales.

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

Result Grid

	total_sales
▶	817860.05

Identify the highest-priced pizza.

```
6 • SELECT
7     pizza_types.name, pizzas.price, rank() over (order by price desc ) as rnk
8 FROM
9     pizza_types
10    JOIN
11    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id limit 1;
12
```

Result Grid |  Filter Rows: | Export:  | Wrap Cell Content: 

	name	price	rnk
▶	The Greek Pizza	35.95	1

Identify the most common pizza size ordered.

```
SELECT
    COUNT(od.order_details_id) AS total_demand, pz.size
FROM
    pizzas AS pz
    JOIN
        order_details AS od ON pz.pizza_id = od.pizza_id
GROUP BY pz.size
ORDER BY total_demand DESC
;
```

	total_demand	size
▶	18526	L
	15385	M
	14137	S
	544	XL
	28	XXL

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

```
SELECT
    pt.name, SUM(od.quantity) AS qty
FROM
    pizza_types AS pt
    JOIN
    pizzas AS pzz ON pt.pizza_type_id = pzz.pizza_type_id
    JOIN
    order_details AS od ON od.pizza_id = pzz.pizza_id
GROUP BY pt.name
ORDER BY qty DESC
LIMIT 5
;
```

Result Grid			Filter Rows:	
	name	qty		
▶	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 orders
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;
```

Result Grid			Filter R
	category	orders	
▶	Classic	14888	
	Veggie	11649	
	Supreme	11987	
	Chicken	11050	

Determine the distribution of orders by hour of the day.

```
SELECT
    HOUR(order_time), COUNT(order_id)
FROM
    orders
GROUP BY HOUR(order_time);
```

	HOUR(order_time)	COUNT(order_id)
▶	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_quantity
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 average_quantity
```

	avg_quantity
▶	138

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

```
• SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) AS total_price
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.name
ORDER BY total_price DESC
LIMIT 3;
```

	name	total_price
▶	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(od.quantity * p.price), 2) AS total_sales
    FROM
        order_details AS od
        JOIN
        pizzas AS p ON od.pizza_id = p.pizza_id) * 100, 2) AS total_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 total_revenue DESC;
```

	category	total_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) from
(SELECT
  orders.order_date,round(sum(order_details.quantity * pizzas.price),2) as revenue
FROM
  orders
  JOIN
  order_details ON order_details.order_id = orders.order_id
  join pizzas
  on
  pizzas.pizza_id = order_details.pizza_id
group by orders.order_date) as sales
```

	order_date	sum(revenue) over (order by order_date)
▶	2015-01-01	2713.85
	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	21526.399999999998
	2015-01-10	23990.35
	2015-01-11	25862.649999999998
	2015-01-12	27781.699999999997
	2015-01-13	29831.299999999996
	2015-01-14	32358.699999999997
	2015-01-15	34343.5
	2015-01-16	36937.65
	2015-01-17	39001.75
	2015-01-18	40978.6
	2015-01-19	43365.75
	2015-01-20	45763.65
	2015-01-21	47804.200000000004
	2015-01-22	50300.9

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) from
(select pizza_types.category,pizza_types.name, sum(pizzas.price * (order_details.quantity)) 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,pizza_types.name order by revenue desc) as revenue
```

category	name	revenue	rank() over(partition by category order by revenue desc)
Chicken	The Thai Chicken Pizza	43434.25	1
Chicken	The Barbecue Chicken Pizza	42768	2
Chicken	The California Chicken Pizza	41409.5	3
Chicken	The Southwest Chicken Pizza	34705.75	4
Chicken	The Chicken Alfredo Pizza	16900.25	5
Chicken	The Chicken Pesto Pizza	16701.75	6
Classic	The Classic Deluxe Pizza	38180.5	1
Classic	The Hawaiian Pizza	32273.25	2
Classic	The Pepperoni Pizza	30161.75	3
Classic	The Greek Pizza	28454.1000000000013	4
Classic	The Italian Capocollo Pizza	25094	5
Classic	The Napolitana Pizza	24087	6
Classic	The Big Meat Pizza	22968	7
Classic	The Pepperoni, Mushroom, ...	18834.5	8
Supreme	The Spicy Italian Pizza	34831.25	1
Supreme	The Italian Supreme Pizza	33476.75	2
Supreme	The Sicilian Pizza	30940.5	3
Supreme	The Pepper Salami Pizza	25529	4
Supreme	The Prosciutto and Arugula ...	24193.25	5
Supreme	The Soppressata Pizza	16425.75	6
Supreme	The Calabrese Pizza	15934.25	7
Supreme	The Spinach Supreme Pizza	15277.75	8
Supreme	The Brie Carre Pizza	11588.499999999999	9
Veggie	The Four Cheese Pizza	32265.7000000000065	1
Veggie	The Mexicana Pizza	26780.75	2
Veggie	The Five Cheese Pizza	26066.5	3
Veggie	The Vegetables + Vegetable...	24374.75	4
Veggie	The Spinach and Feta Pizza	23271.25	5
Veggie	The Italian Vegetables Pizza	16019.25	6
Veggie	The Spinach Pesto Pizza	15596	7
Veggie	The Mediterranean Pizza	15360.5	8
Veggie	The Green Garden Pizza	13955.75	9

THANK YOU