



SQL PROJECT ON PIZZA SALE





HELLO

my name is Ajay Visariya. in this project, i have utilized SQL queries to solve questions that were related to pizza sales.



QUESTIONS

Q:1 Retrieve the total number of orders placed.

Q:2 Calculate the total revenue generated from pizza sales.

Q:3 Identify the highest-priced pizza.

Q:4 Identify the most common pizza size ordered.

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

Q:6 Join the necessary tables to find the total quantity of each pizza category.

Q:7 Determine the distribution of orders by hour of the day.

Q:8 Join relevant tables to find the category-wise distribution of pizzas.

Q:9 Group the orders by date, calculate the average number of pizzas ordered per day.

Q:10 Determine the top 3 most ordered pizza types based on revenue.

Q:11 Calculate the percentage contribution of each pizza type to total revenue.

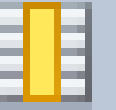
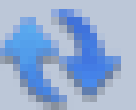
Q:12 Analyze the cumulative revenue generated over time.

Q:13 Determine the top 3 most ordered pizza types based on revenue for each pizza category.



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

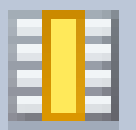
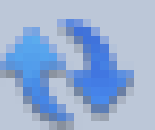

```
SELECT
    COUNT(order_id) AS Total_Orders
FROM
    orders;
```

Result Grid			
	Total_Orders		
▶	21350		



CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
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 Grid			
	Total_Revenue		
	817860.05		



IDENTIFY THE HIGHEST-PRICED PIZZA.

```
SELECT
    pizza_types.name, pizzas.price AS Highest_Priced_Pizza
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY price DESC
LIMIT 1;
```

Result Grid			Filter Rows:	
	name	Highest_Priced_Pizza		
▶	The Greek Pizza	35.95		



IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

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

Result Grid			Filter Rows:
	size	Most_Common_Pizza_Size_ordered	
▶	L	18526	



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



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

Result Grid			Filter Rows:	
	name	Most_Order_Pizza_Type		
▶	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.

```
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 category order by Total_Quantity desc;
```

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



DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

SELECT

`COUNT(orders.order_id), order_time`

FROM

`orders`

GROUP BY `order_time;`

SELECT

`HOUR(order_time) AS Hour, COUNT(order_id) AS Order_Count`

FROM

`orders`

GROUP BY `HOUR(order_time);`

Result Grid				Filter
	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		
	22	663		
	23	28		
	10	8		



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

```
SELECT
    COUNT(pizza_type_id) AS Pizza_Distribution, category
FROM
    pizza_types
GROUP BY category
ORDER BY COUNT(pizza_type_id) DESC;
```

Result Grid			Filter Rows:
	Pizza_Distribution	category	
▶	9	Supreme	
	9	Veggie	
	8	Classic	
	6	Chicken	



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

```
SELECT
    ROUND(AVG(Avg_Pizza_Per_Day), 0)
FROM
    (SELECT
        orders.order_date, SUM(order_details.quantity) AS Avg_Pizza_Per_Day
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY order_date) AS Order_Quantity;
```

Result Grid		Filter Rows:
	ROUND(AVG(Avg_Pizza_Per_Day), 0)	
▶	138	



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

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

Result Grid			Filter Rows:	
	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.


```
SELECT
    pizza_types.category,
    (SUM(order_details.quantity * pizzas.price) / (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) * 100) 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 category
ORDER BY Revenue DESC;
```

Result Grid			Filter Rows:
	category	Revenue	
▶	Classic	26.90596025566967	
	Supreme	25.45631126009862	
	Chicken	23.955137556847287	
	Veggie	23.682590927384577	



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 order_date) as sales;
```

Result Grid  Filter Rows: <input type="text"/>		
	order_date	Cum_Revenue
▶	2015-01-01	2713.8500000000000004
	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 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;
```

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	32265.700000000065	
	The Mexicana Pizza	26780.75	
	The Five Cheese Pizza	26066.5	



THANK YOU

