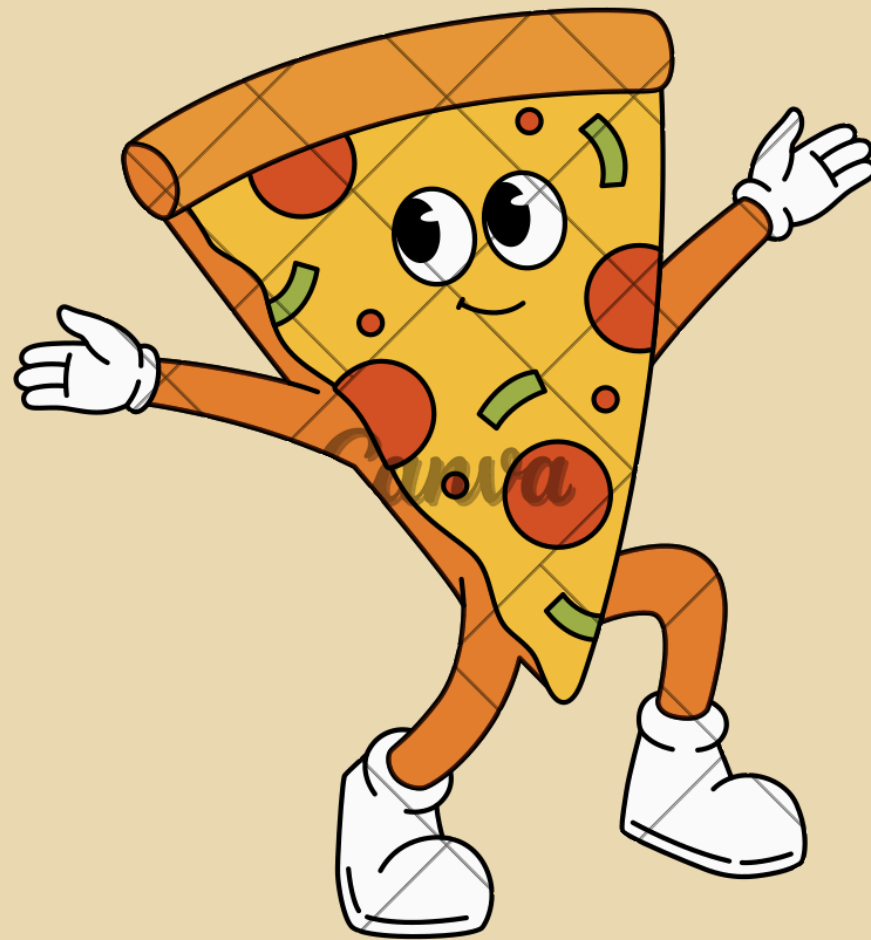


SQL BASED ON PIZZA SALES





Hello !

My self Sayali Mahendra Ghadi. In this project i have utilized SQL queries to solve questions that are related to pizza sales.

Description

I created database pizzahut and i took the dataset from kaggle, extract the data set in desktop. Then under the database i created tables orders, orders_details, pizzas, pizza_types and in each tables i imported data and after that i started the run queries.



Retrieve the total number of orders placed.

SELECT

```
COUNT(order_id) AS total_orders
```

FROM

```
orders;
```

Result Grid

	total_orders
▶	4943

Calculate the total revenue generated from pizza sales.

```
SELECT
```

```
    ROUND(SUM(orders_details.quantity * pizzas.price),  
           2) AS total_revenue
```

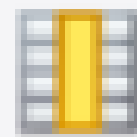
```
FROM
```

```
    orders_details
```

```
    JOIN
```

```
    pizzas ON pizzas.pizza_id = orders_details.pizza_id
```



Result Grid



	total_revenue
▶	21932.35



Identify the highest-priced pizza.

```
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 Grid   Filter R		
	name	price
▶	The Greek Pizza	35.95



Identify the most common pizza size ordered.

```
SELECT
    pizzas.size,
    COUNT(orders_details.order_details_id) AS order_count
FROM
    pizzas
    JOIN
        orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC;
```

Result Grid					Filter
	size	order_count			
▶	L	491			
	M	420			
	S	399			
	XL	8			

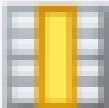

List the top 5 most ordered pizza types along with their quantities.

```
SELECT
    pizza_types.name, SUM(orders_details.quantity) AS quantity
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC;
```

Result Grid   Filter Rows: <input type="text"/>		
	name	quantity
▶	The Barbecue Chicken Pizza	141
	The California Chicken Pizza	113
	The Big Meat Pizza	98
	The Classic Deluxe Pizza	94
	The Hawaiian Pizza	66



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

```
select pizza_types.category, sum(orders_details.quantity) as quantity
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details
on orders_details.pizza_id = pizzas.pizza_id
group by pizza_types.category order by quantity desc;
```

Result Grid					F
	category	quantity			
▶	Classic	432			
	Chicken	362			
	Veggie	283			
	Supreme	262			



Determine the distribution of orders by hour of the day.

```
SELECT
    HOUR(time) AS hour, COUNT(order_id) AS order_count
FROM
    orders
GROUP BY HOUR(time);
```

Result Grid   F		
	hour	order_count
	11	271
	12	564
	13	544
	14	435
	15	360
	16	434
	17	529
	18	548
	19	470
	20	526

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

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

Result Grid					Filter
	category	pizza_count			
	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_pizza_ordered
FROM
    (SELECT
        orders.date, SUM(orders_details.quantity) AS quantity
    FROM
        orders
    JOIN orders_details ON orders.order_id = orders_details.order_id
    GROUP BY orders.date) AS order_quantity;
```

Result Grid	
	avg_pizza_ordered
▶	158

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

```
SELECT
    pizza_types.name,
    SUM(orders_details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
    JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
    JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```

Result Grid					Filter Rows:
	name	revenue			
▶	The Barbecue Chicken Pizza	2513.75			
	The California Chicken Pizza	1932.75			
	The Classic Deluxe Pizza	1478			



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

```
select pizza_types.category, (sum(orders_details.quantity * pizzas.price) / (SELECT  
    ROUND(SUM(orders_details.quantity * pizzas.price),  
        2) AS total_revenue  
FROM  
    orders_details  
    JOIN  
        pizzas ON pizzas.pizza_id = orders_details.pizza_id) ) * 100 as revenue  
from pizza_types join pizzas  
on pizza_types.pizza_type_id = pizzas.pizza_type_id  
join orders_details  
on orders_details.pizza_id = pizzas.pizza_id  
group by pizza_types.category order by revenue desc;
```

Result Grid			Filter Rows:	
	category	revenue		
▶	Chicken	28.831839725337232		
	Classic	28.162736779232507		
	Veggie	21.985560142893927		
	Supreme	21.019863352536323		



Analyze the cumulative revenue generated over time.

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

Result Grid   Filter Rows: <input type="text"/>		
	date	cum_revenue
▶	2015-01-01	3409.0499999999997
	2015-01-02	6737.549999999999
	2015-01-03	10124.55
	2015-01-04	12780.449999999999
	2015-01-05	15477.3
	2015-01-06	18696.899999999998
	2015-01-07	21585.75
	2015-01-08	25057.2

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(orders_details.quantity * pizzas.price) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details
on orders_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: <input type="text"/>		
	name	revenue
▶	The Barbecue Chicken Pizza	2513.75
	The California Chicken Pizza	1932.75
	The Chicken Alfredo Pizza	532.75
	The Classic Deluxe Pizza	1478
	The Big Meat Pizza	1176
	The Hawaiian Pizza	879.75
	The Italian Supreme Pizza	968.25
	The Pepper Salami Pizza	642.5

*Thank
you!*