

PIZZA SALES **SQL PROJECT**

PRESENTED BY

ACHAL AGARWAL

PROBLEM

WE HAVE A PIZZA SALES DATASET WHICH INCLUDES
NAMES,CONTENTS, ID'S
ORDER DATES, ORDER TIME , QUANTITY ORDERED, PRICE IN
FOUR TABLES
PIZZAS, PIZZA TYPES, ORDERS, ORDER DETAILS
**WE ANALYZED THESE DATASETS AND PERFORMED QUERY
OPERATIONS TO DERIVE THE FOLLOWING RESULTS**

Retrieve the total number of orders placed

```
select count(*) as total_orders  
from orders
```

	total_orders
▶	21350

Calculate the total revenue generated from pizza sales.

```
SELECT  
    ROUND(SUM(order_details.quantity * pizzas.  
        2) AS total  
FROM  
    order_details  
    JOIN
```

	total
▶	817860.05

Identify the highest-priced pizza.

```
select pizza_types.name,pizzas.price  
from pizza_types  
join pizzas  
on pizzas.pizza_type_id=pizza_types.pizza_type_id  
order by pizzas.price desc  
limit 1
```

	name	price
▶	The Greek Pizza	35.95

Identify the most common pizza size ordered.

```
select pizzas.size, count(order_details.order_details_id) as maxOrder
from pizzas
join order_details
on pizzas.pizza_id=order_details.pizza_id
group by pizzas.size
order by maxOrder desc
-- limit 1
```

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

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 pizzas.pizza_type_id=pizza_types.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.

```
select pizza_types.category,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.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(order_time) as hour, count(order_id) as orders  
from orders  
group by hour(order_time)
```

	hour	orders
▶	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 average 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 a;
```

	average
▶	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 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.

```
SELECT
    pizza_types.category,
    ROUND(SUM(pizzas.price * order_details.quantity) / (SELECT
        SUM(pizzas.price * order_details.quantity)
    FROM
        pizzas
    JOIN
        order_details ON pizzas.pizza_id = order_details.pizza_id) * 100,
    2) AS percentage_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
```

	category	percentage_revenue
▶	Classic	26.91
	Veggie	23.68
	Supreme	25.46
	Chicken	23.96

Analyze the cumulative revenue generated over time.

```
select order_date,sum(revenue) over(order by order_date) as cum_rev
from
(select orders.order_date,sum(pizzas.price * order_details.quantity) 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 orders.order_date limit 7) as sales
```

	order_date	cum_rev
▶	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
	2015-01-06	14358.5
	2015-01-07	16560.7

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(pizzas.price * order_details.quantity) as revenue
from order_details
join pizzas
on order_details.pizza_id=pizzas.pizza_id
join pizza_types
on pizzas.pizza_type_id=pizza_types.pizza_type_id
group by pizza_types.category,pizza_types.name) as a) as b
where rn<=3;
```

	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	32265.70000000065
	The Mexicana Pizza	26780.75
	The Five Cheese Pizza	26066.5

THANKYOU!