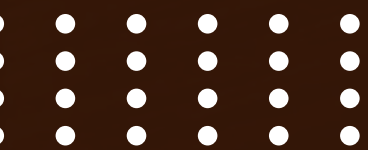


SQL PROJECT ON PIZZASALES





HELLO

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In this project, I have utilized SQL to solve queries related to pizza sales. This project focuses on analyzing sales data using various SQL queries to extract meaningful insights and support business decisions.

PIZZA SALES PROJECT - DATABASE



customers (customer_id, customer_name, email, phone, address)

orders (order_id, customer_id, order_date, order_time, total_amount)

pizzas (pizza_id, pizza_name, category, size, price)

order_details (order_detail_id, order_id, pizza_id, quantity)



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED



- QUERIES

```
select count(order_id) from orders ;  
select count(order_id) as total_orders from orders ;
```

- OUTPUT

Result Grid	
	total_orders
▶	21350



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;
```

	name	price
▶	The Greek Pizza	35.95



IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

```
SELECT
    quantity, COUNT(order_details_id)
FROM
    orders_details
GROUP BY quantity;

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;
```

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

LIIS THE TOP 5 ORDERED PIZZ 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
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(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;
```

	category	quantity
►	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.



```
select* from orders;
select hour(order_time)from orders;

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

	hour	order_count
▶	11	1231
	12	2 1231
	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 PIZZS ORDERED PER DAY.

```
SELECT
    ROUND(AVG(quantity), 0) as avg_pizza_ordered_per_day
FROM
    (SELECT
        orders.order_date, SUM(orders_details.quantity) AS quantity
    FROM
        orders
    JOIN orders_details ON orders.order_id = orders_details.order_id
    GROUP BY orders.order_date) AS order_quantity;
```

	avg_pizza_ordered_per_day
▶	138

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;
```

	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

CALULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE .

```
select pizza_types.category,  
       (sum(orders_details.quantity * pizzas.price) * 100 /  
        (select round(sum(orders_details.quantity * pizzas.price), 2)  
         from pizzas  
         join orders_details on orders_details.pizza_id = pizzas.pizza_id)  
        ) as revenue_percentage  
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_percentage desc;
```

	category	revenue_percentage
▶	Classic	26.905960255669665
	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(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_details_id
    group by orders.order_date
) as sales;
```

**DETERMINE THE TOP 3 MOST ORDERED
PIZZA TYPES
BASED ON REVENUE FOR EACH PIZZA
CATEGORY.**

```
select name, revenue from
(SELECT
    sub.category,
    sub.name,
    sub.revenue,
    RANK() OVER(PARTITION BY sub.category ORDER BY sub.revenue DESC) AS rn
FROM (
    SELECT
        pizza_types.category AS category,
        pizza_types.name AS 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
```

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	