HELLO

PIZZAHUT

MY NAME IS ROHIT KUMAR THIS PROJECT I HAVE UTILIZED SQL QUERIES TO SOLVE A QUESTION AS REALTED TO PIZZA SALES

DESCRIPTION

The Pizza Hut Database Management System is designed to handle the operations of a Pizza Hut restaurant, focusing on the core functionalities of order management, inventory control, menu tracking, and employee management. The project utilizes MySQL to store and manipulate data, ensuring that the restaurant can efficiently handle day-to-day activities

Calculate the total revenue generated from pizza sales.

PIZZAHUT

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

Result Grid

total_sales
817860.05

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

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```sql
SELECT
    pizza_types.name, 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.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

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.Group the orders by date and calculate the average number of pizzas ordered per day.

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```sql
SELECT
    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_details_id
    GROUP BY orders.order_date) AS order_quantity
```

Result Grid

	AVG(quantity)
▶	60.7709

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

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```sql
SELECT
    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.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

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Analyze the cumulative revenue generated over time.

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```
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 orders.order_date) as sales;
```

Result Grid | Filter Rows:

order_date	cum_revenue
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

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Determine the distribution of orders by hour of the day.

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

Result Grid | Filter Rov

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
9	1

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

```sql
select category, 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 = pizza_types.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: | Export:

category	name	revenue
Chicken	The Barbecue Chicken Pizza	817860.049999993
Chicken	The California Chicken Pizza	817860.049999993
Chicken	The Chicken Alfredo Pizza	817860.049999993
Chicken	The Chicken Pesto Pizza	817860.049999993
Chicken	The Southwest Chicken Pizza	817860.049999993
Chicken	The Thai Chicken Pizza	817860.049999993
Classic	The Big Meat Pizza	817860.049999993
Classic	The Classic Deluxe Pizza	817860.049999993
Classic	The Hawaiian Pizza	817860.049999993
Classic	The Italian Capocollo Pizza	817860.049999993
Classic	The Napolitana Pizza	817860.049999993
Classic	The Pepperoni, Mushroom, ...	817860.049999993
Classic	The Pepperoni Pizza	817860.049999993
Classic	The Greek Pizza	817860.049999993
Supreme	The Brie Carre Pizza	817860.049999993
Supreme	The Calabrese Pizza	817860.049999993
Supreme	The Italian Supreme Pizza	817860.049999993
Supreme	The Pepper Salami Pizza	817860.049999993

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THANK YOU!

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