PIZZA HUT

PROJECT

Using SQL

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PROJECT

ABOUT DATA

This project is created by Pinki Nigam just to demonstrate the skills of SQL. Data set used in this project is a public data set.

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WE ARE GOING TO SOLVE 11 QUESTION IN THIS PROJECT

Que 1 Calculate the total revenue generated from pizza sales.

```sql
-- Calculate the total revenue generated from pizza sales.

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

Result Grid | Filte

total_sales
817860.05

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NEXT QUESTION

Que 2 Identify the highest-priced pizza.

```sql
-- 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 Rows

name	price
The Greek Pizza	35.95

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QUESTION 3

Identify the most common pizza size ordered.

```
-- Identify the most common pizza size ordered.
SELECT
    pizzas.size,
    SUM(order_details.order_details_id) AS order_count
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC
```

Result Grid | Filter R

size	order_count
L	449383379
M	374739224
S	344360774
XL	12852430
XXL	640703

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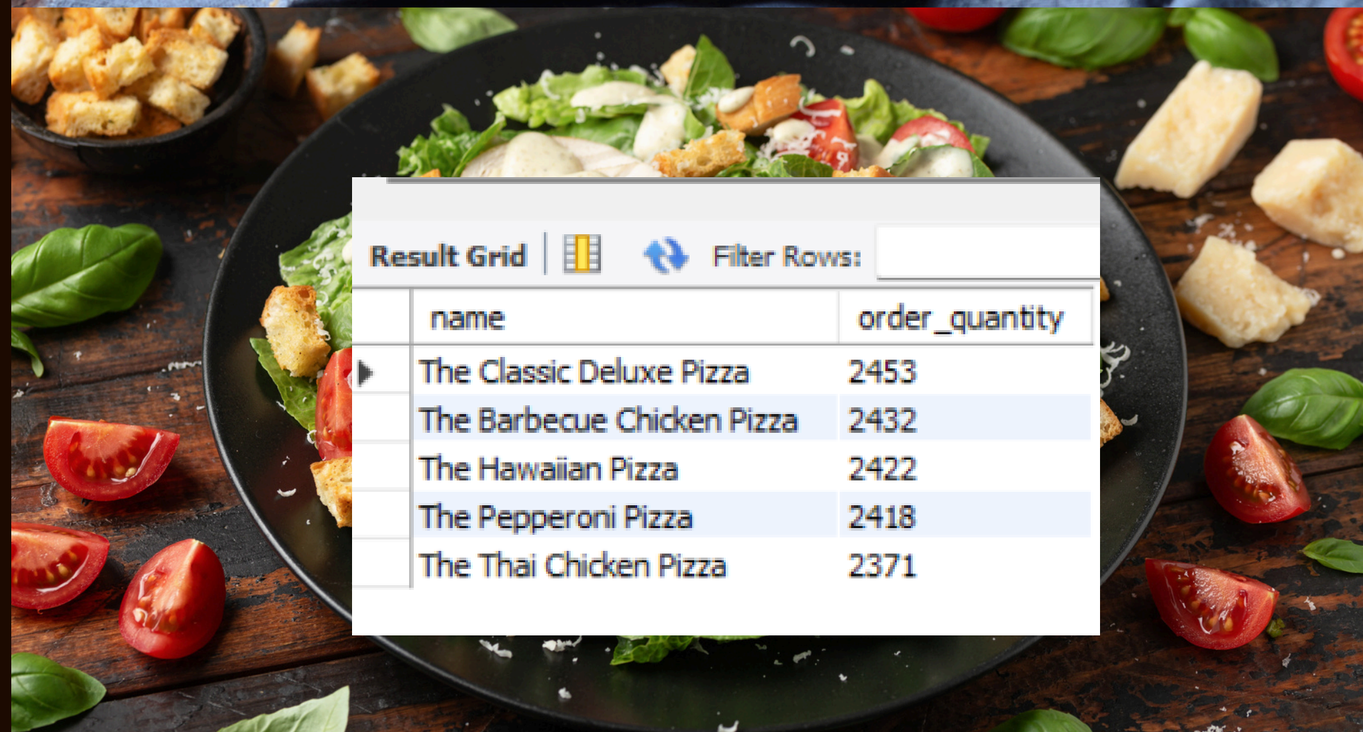
Que-4

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

```
select pizza_types.name, sum(order_details.quantity) as order_quantity
from pizzas join pizza_types
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 order_quantity desc limit 5;
```



Result Grid | Filter Rows:

name	order_quantity
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

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

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 pizza_types.category
ORDER BY total_quantity DESC
```

Result Grid | Filter Rov

category	total_quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

QUESTION NO.5

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

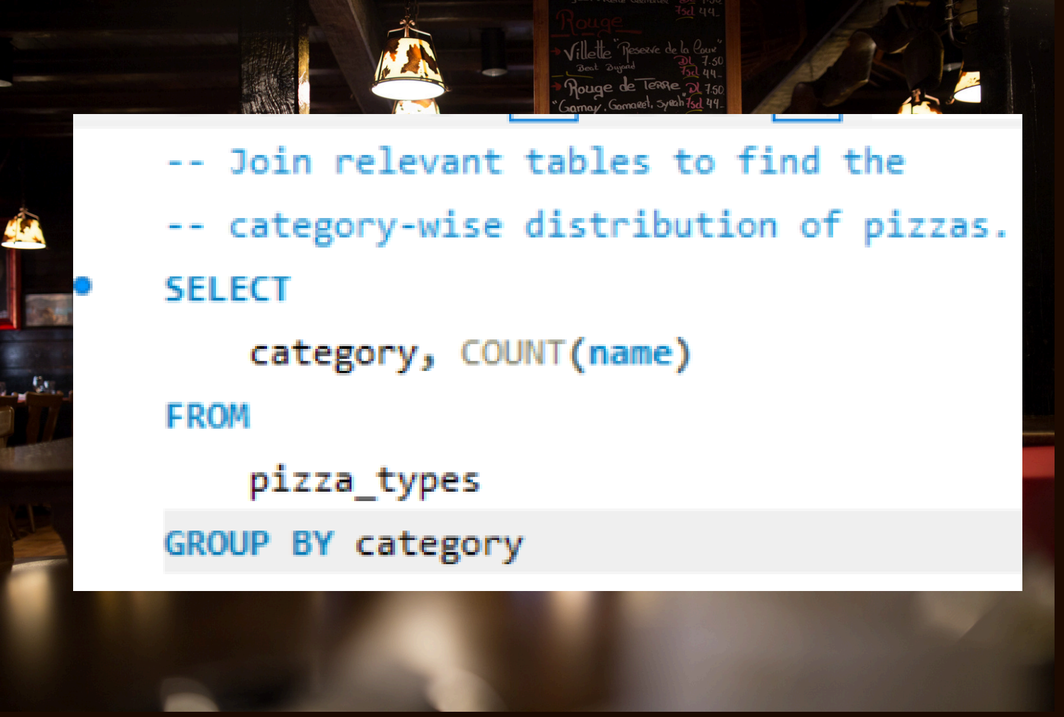
QUESTION NO. 6

Determine the distribution of orders by hour of the day.

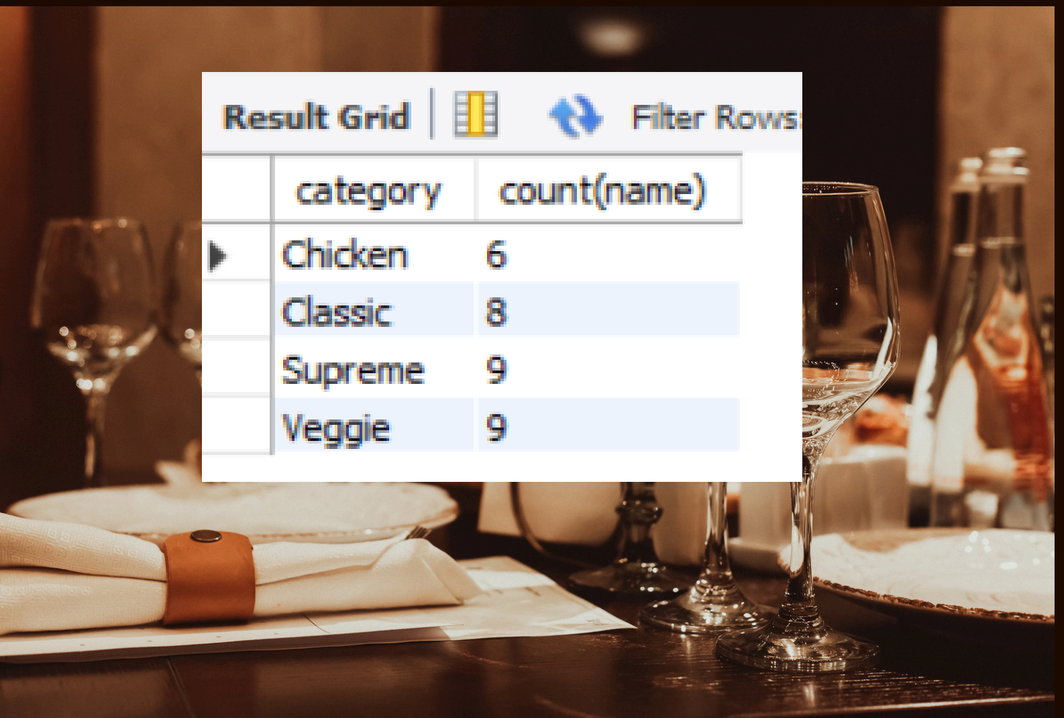
```sql
-- Determine the distribution of orders by hour of the day.

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

Result Grid | Filter Rows:

hour(time)	total_orders
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920



```sql
-- Join relevant tables to find the
-- category-wise distribution of pizzas.
SELECT
    category, COUNT(name)
FROM
    pizza_types
GROUP BY category
```



Result Grid | Filter Rows:

category	count(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9

QUESTION NO. 7

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

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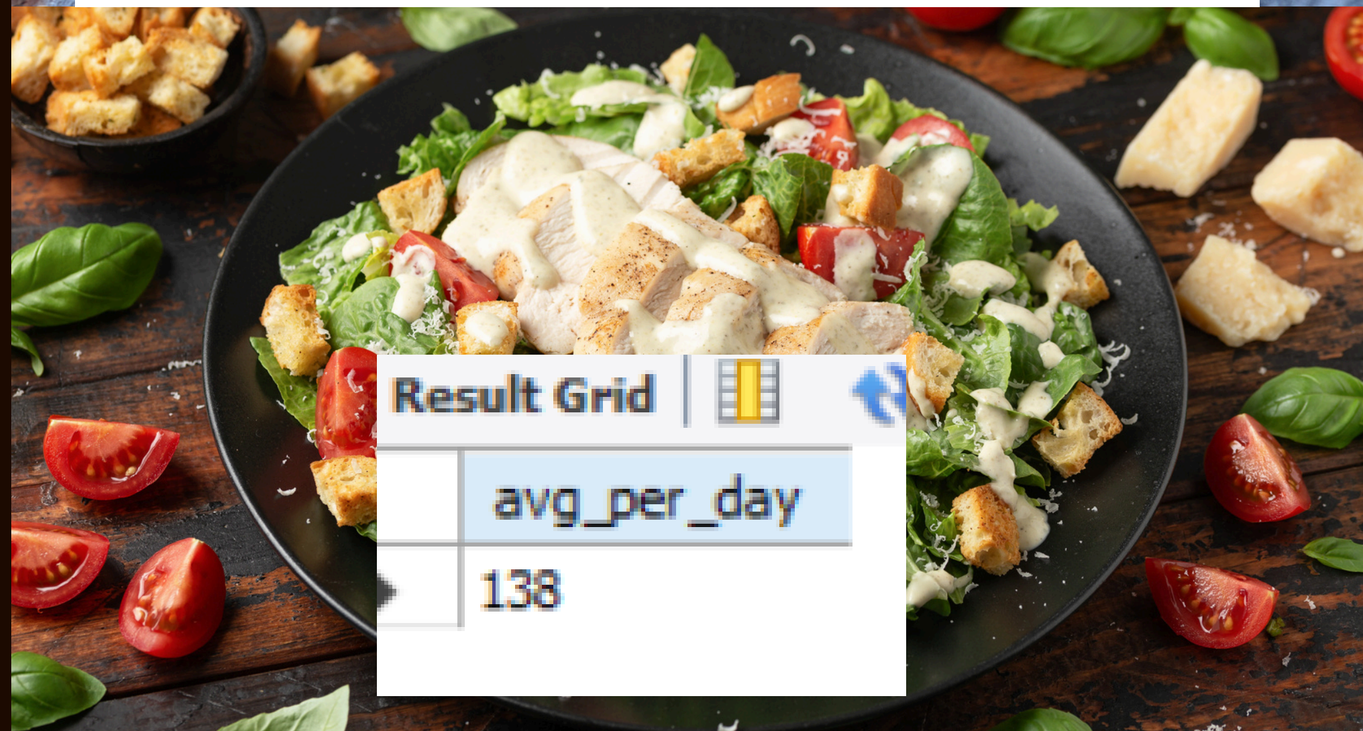
Que-8

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

```sql
-- Group the orders by date and calculate the average
-- number of pizzas ordered per day
SELECT
    ROUND(AVG(order_quantity), 0) AS avg_per_day
FROM
    (SELECT
        orders.date, SUM(order_details.quantity) AS order_quantity
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.date) AS total_orders
```



Result Grid

avg_per_day
138

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Que-9

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

```sql
-- determine the top 3 most ordered pizza types based on revenue.
SELECT
    pizza_types.name,
    SUM(pizzas.price * order_details.quantity) AS revenue
FROM
    pizzas
        JOIN
    pizza_types 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 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

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Que-10

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

```sql
-- 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) AS total_revenue
                FROM
                    pizzas
                        JOIN
                    order_details ON pizzas.pizza_id = order_details.pizza_id) * 100,
            2) AS revenue_contribution
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue_contribution DESC
```

Result Grid | Filter Rows:

category	revenue_contribution
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

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Que-11

Analyze the cumulative revenue generated over time.

```sql
-- Analyze the cumulative revenue generated over time.
select date,sum(revenue) over (order by date) as cum_revenue
from
(select orders.date, round(sum(order_details.quantity * pizzas.price),2) as revenue
from order_details join orders
on order_details.order_id = orders.order_id
join pizzas
on pizzas.pizza_id = order_details.pizza_id
group by orders.date) as sales
```

Result Grid | Filter Rows:

date	cum_revenue
2015-01-01	2713.85
2015-01-02	5445.75
2015-01-03	8108.15
2015-01-04	9863.6
2015-01-05	11929.55

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THANK YOU