BORCELLE
RESTAURANT

ITALIAN PIZZA

INTRODUCTION

Hi my self yuvraj Kumar, welcome to my pizza Sales Report Presentation. This dataset provides a comprehensive overview of pizza sales within a specific period. It includes various attributes that capture detailed information about each transaction, such as the date and time of the sale, type and size of the pizza sold, quantity, and total revenue generated.

AGENDA

01 Retrieve the total number of orders placed.

02 Calculate the total revenue generated from pizza sales

03 Identify the highest-priced pizza.

04 Identify the most common pizza size ordered.

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

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

07 Determine the distribution of orders by hour of the day.

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

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

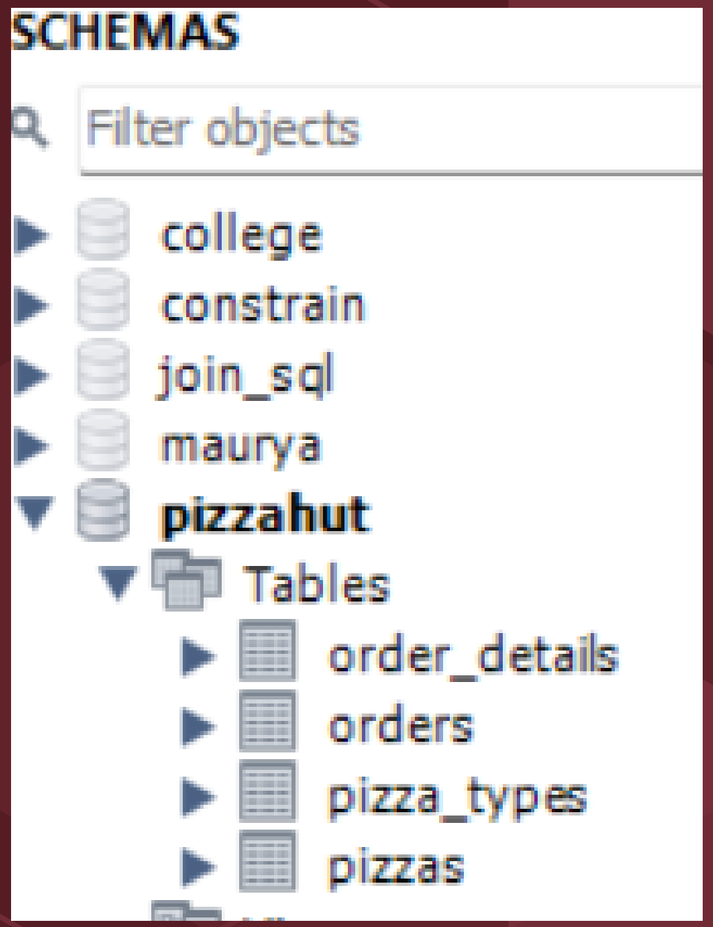
10 Determine the top 3 most ordered pizza types based on revenue.

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

12 Analyze the cumulative revenue generated over time..

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

SUMMARY OF DATA



SELECT * FROM pizzahut.orders;

Result Grid | Filter Rows:

ORDER_ID	ORDER_DATE	ORDER_TIME
1	2015-01-01	11:38:36
2	2015-01-01	11:57:40
3	2015-01-01	12:12:28
4	2015-01-01	12:16:31
5	2015-01-01	12:21:30
6	2015-01-01	12:29:36
7	2015-01-01	12:50:37
8	2015-01-01	12:51:37
9	2015-01-01	12:52:01
10	2015-01-01	13:00:15
11	2015-01-01	13:02:59
12	2015-01-01	13:04:41

corders 1 ×

SELECT * FROM pizzahut.pizzas;

Result Grid | Filter Rows: | Expo

pizza_id	pizza_type_id	size	price
bbq_ckn_s	bbq_ckn	S	12.75
bbq_ckn_m	bbq_ckn	M	16.75
bbq_ckn_l	bbq_ckn	L	20.75
cali_ckn_s	cali_ckn	S	12.75
cali_ckn_m	cali_ckn	M	16.75
cali_ckn_l	cali_ckn	L	20.75
ckn_alfredo_s	ckn_alfredo	S	12.75
ckn_alfredo_m	ckn_alfredo	M	16.75
ckn_alfredo_l	ckn_alfredo	L	20.75
ckn_pesto_s	ckn_pesto	S	12.75
ckn_pesto_m	ckn_pesto	M	16.75
ckn_pesto_l	ckn_pesto	L	20.75

izzas 1 ×

SELECT * FROM pizzahut.order_details;

Result Grid | Filter Rows: | Export:

order_details_id	order_id	pizza_id	quantity
1	1	hawaiian_m	1
2	2	classic_dlx_m	1
3	2	five_cheese_l	1
4	2	ital_supr_l	1
5	2	mexicana_m	1
6	2	thai_ckn_l	1
7	3	ital_supr_m	1
8	3	prsc_argla_l	1
9	4	ital_supr_m	1
10	5	ital_supr_m	1
11	6	bbq_ckn_s	1
12	6	the_greek_s	1

der_details 1 ×

Output

SELECT * FROM pizzahut.pizza_types;

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

pizza_type_id	name	category	ingredients
bbq_ckn	The Barbecue Chicken Pizza	Chicken	Barbecued Chicken, Red Peppers, Green Peppe...
cali_ckn	The California Chicken Pizza	Chicken	Chicken, Artichoke, Spinach, Garlic, Jalapeno P...
ckn_alfredo	The Chicken Alfredo Pizza	Chicken	Chicken, Red Onions, Red Peppers, Mushrooms
ckn_pesto	The Chicken Pesto Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Spinach, Garl...
southw_ckn	The Southwest Chicken Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Red Onions, ...
thai_ckn	The Thai Chicken Pizza	Chicken	Chicken, Pineapple, Tomatoes, Red Peppers, T...
big_meat	The Big Meat Pizza	Classic	Bacon, Pepperoni, Italian Sausage, Chorizo Sau...
classic_dlx	The Classic Deluxe Pizza	Classic	Pepperoni, Mushrooms, Red Onions, Red Peppe...
hawaiian	The Hawaiian Pizza	Classic	Sliced Ham, Pineapple, Mozzarella Cheese
ital_cpclo	The Italian Capocollo Pizza	Classic	Capocollo, Red Peppers, Tomatoes, Goat Chee...
napolitana	The Napolitana Pizza	Classic	Tomatoes, Anchovies, Green Olives, Red Onion...
pep_msh_pep	The Pepperoni, Mushroom, ...	Classic	Pepperoni, Mushrooms, Green Peppers

izza_types 1

1.Retrieve the total number of orders placed.

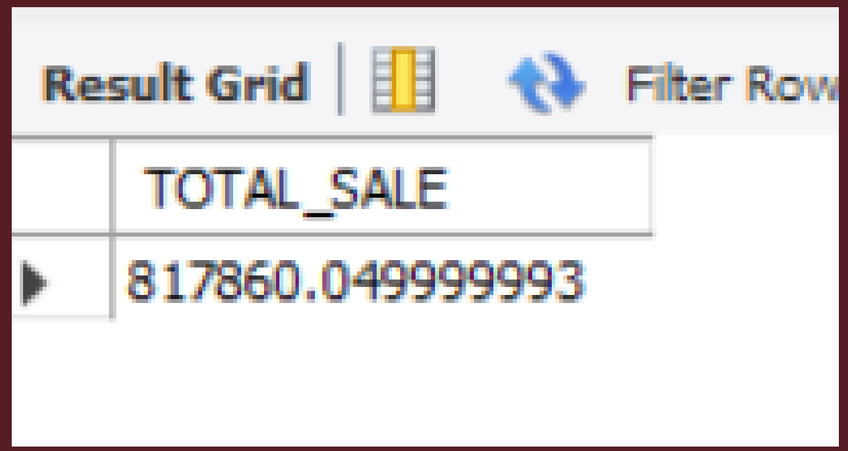
```sql
# Retrieve the total number of orders placed?
# to retrieve this data
USE PIZZAHUT;
# BY USING COUNT
SELECT COUNT(ORDER_ID) FROM ORDERS; # 21350
```

Result Grid | Filter

	COUNT(ORDER_ID)
▶	21350

2. CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES

```
SELECT
    SUM(order_details.quantity * PIZZAS.PRICE) AS TOTAL_SALE
FROM
    order_details
        JOIN
    PIZZAS ON PIZZAS.PIZZA_ID = order_details.pizza_id;
```



3. IDENTIFY THE HIGHEST-PRICED PIZZA.

```sql
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

4. IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
select pizzas.size, COUNT(order_details.quantity
FROM PIZZAS JOIN order_details
ON pizzas.pizza_id = order_details.pizza_id
group by pizzas.size LIMIT 1;
```

Result Grid | Filter Rows:

size	COUNT(order_details.quantity)
M	15385

5. LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES

```sql
SELECT
    pizza_types.NAME, SUM(order_details.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 SUM(order_details.quantity) DESC
LIMIT 5;
```

Result Grid | Filter Rows:

NAME	SUM(order_details.quantity)
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

6. 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 pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.category
order by quantity;
```

Result Grid | Filter Rc

	category	Quantity
▶	Chicken	11050
	Veggie	11649
	Supreme	11987
	Classic	14888

7. DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```sql
SELECT
    HOUR(ORDER_TIME),
    COUNT(order_details.quantity) AS quantities
FROM
    order_details
        JOIN
    orders ON orders.ORDER_ID = order_details.order_id
GROUP BY HOUR(orders.ORDER_TIME);
```

Result Grid | Filter Rows:

HOUR(ORDER_TIME)	quantities
11	2672
12	6543
13	6203
14	3521
15	3170
16	4185
17	5143
18	5359
19	4350
20	3487
21	2528
22	1370

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8. 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

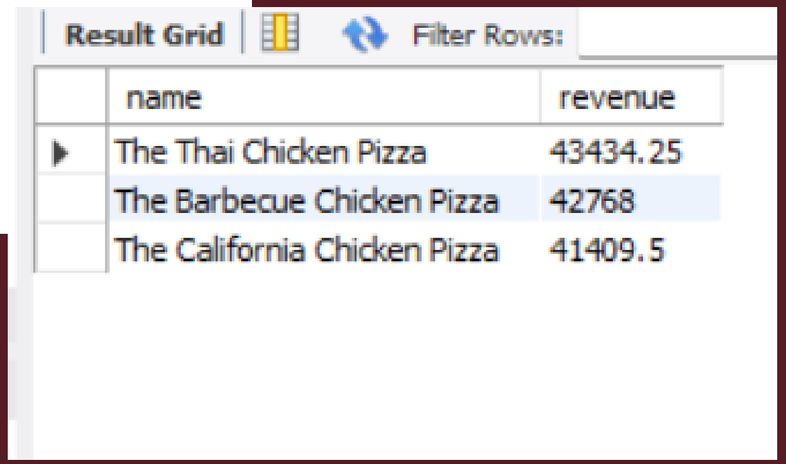
9. GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```sql
SELECT
    AVG(daily_sum)
FROM
    (SELECT
        orders.ORDER_DATE, SUM(order_details.quantity) AS daily_sum
    FROM
        orders
    JOIN order_details ON orders.ORDER_ID = order_details.order_id
    GROUP BY orders.ORDER_DATE) AS subquery;
```

AVG(daily_sum)
138.4749

10. DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```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

11. CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

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

Result Grid | Filter Rows: | Export:

category	revenue	percentage_contribution
Classic	220053.1000000001	26.91
Veggie	193690.45000000298	23.68
Supreme	208196.99999999822	25.46
Chicken	195919.5	23.96

12. ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
select order_date,
revenue,
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: | Export:

order_date	revenue	cum_revenue
2015-01-01	2713.8500000000004	2713.8500000000004
2015-01-02	2731.8999999999996	5445.75
2015-01-03	2662.3999999999996	8108.15
2015-01-04	1755.4500000000003	9863.6
2015-01-05	2065.95	11929.55
2015-01-06	2428.95	14358.5
2015-01-07	2202.2000000000003	16560.7
2015-01-08	2838.3499999999995	19399.05
2015-01-09	2127.3500000000004	21526.4
2015-01-10	2463.95	23990.350000000002
2015-01-11	1872.3000000000002	25862.65
2015-01-12	1919.0500000000002	27781.7
2015-01-13	2049.6000000000004	29831.300000000003
2015-01-14	2527.3999999999996	32358.700000000004
2015-01-15	1984.8000000000002	34343.50000000001
2015-01-16	2594.15	36937.65000000001
2015-01-17	2064.1000000000004	39001.75000000001
2015-01-18	1976.8500000000001	40978.600000000006
2015-01-19	2387.1499999999996	43365.75000000001

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

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

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	32265.70000000065
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.5

THANK YOU