Delicious
PIZZA

Introduction

Hello, My Name is Mohammed Rafe Raheel, I have created SQL Project on Pizzahut Sales, You can slide Pages to view my project.

Schema : Pizzahut

Tables :
Order_details

Orders

Pizza_types

Pizzas

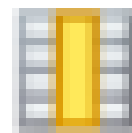# Retrieve the total number of orders placed.

```sql
SELECT
    COUNT(*)
FROM
    orders AS total_orders_placed;
```

	count(*)
▶	21350

Calculate the total revenue generated from pizza sales

```sql
SELECT
    ROUND(SUM(order_details.quantity * pizzas.price),
        2) AS total_sales_amount
FROM
    order_details
        JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id;
```
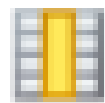
Result Grid	Filter

	total_sales_amount
▶	817860.05

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 price DESC
LIMIT 1;
```

name	price
The Greek Pizza	35.95

Identify the most common pizza size ordered

```sql
SELECT
    pizzas.size,
    COUNT(order_details.quantity) 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
LIMIT 1;
```

Result Grid | Filter Row

size	order_count
L	18526

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

```sql
SELECT
    pizzas.pizza_type_id,
    COUNT(order_details.quantity) AS quantity_orders
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.pizza_type_id
ORDER BY quantity_orders DESC
LIMIT 5;
```

Result Grid | Filter Rows:

pizza_type_id	quantity_orders
classic_dlx	2416
bbq_ckn	2372
hawaiian	2370
pepperoni	2369
thai_ckn	2315

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

```sql
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 Rows:

category	total_quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

Determine the distribution of orders by hour of the day

```sql
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	2520
13	2455
14	1472
15	1468
16	1920

Result Grid | Filter Rows:

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

```sql
SELECT
    COUNT(category), category as pizza_category
FROM
    pizza_types
GROUP BY category;
```

	COUNT(category)	pizza_category	
▶	6	Chicken	
	8	Classic	Cla
	9	Supreme	
	9	Veggie	

Result Grid   Filter Rows:

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

```sql
SELECT
    ROUND(AVG(average_pizzas_ordered))
FROM
    (SELECT
        CEIL(SUM(quantity)) AS average_pizzas_ordered,
            DATE(order_date) AS per_day
    FROM
        order_details
    JOIN orders ON orders.order_id = order_details.order_id
    GROUP BY DATE(order_date)) AS order_quantity;
```

Result Grid | Filter Rows:

ROUND(AVG(average_pizzas_ordered))
138

Determine the top 3 most ordered pizza types based on revenue

```sql
SELECT
    pizza_types.name,
    CEIL(SUM(order_details.quantity * pizzas.price)) AS revenue
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
        JOIN
    pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```

Result Grid | Filter Rows:

name	revenue
The Thai Chicken Pizza	43435
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41410

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE

```sql
SELECT
    pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (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) * 100,
            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.category
ORDER BY revenue DESC;
```

Result Grid	Filter Rows:

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME

```sql
select order_date, sum(revenue) over( order by order_date) as cumulative_revenue
from
(select orders.order_date,
round(sum(pizzas.price * order_details.quantity),2) as revenue
from orders join order_details
on orders.order_id = order_details.order_id
join pizzas
on pizzas.pizza_id = order_details.pizza_id
group by orders.order_date) as sales;
```

Result Grid | Filter Rows:

order_date	cumulative_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
2015-01-06	14358.5
2015-01-07	16560.7
2015-01-08	19399.05
2015-01-09	21526.399999999998
2015-01-10	23990.35
2015-01-11	25862.640000000008

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.name, pizza_types.category,
    CEIL(SUM(order_details.quantity * pizzas.price)) AS revenue
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
        JOIN
    pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id

GROUP BY pizza_types.name, pizza_types.category) as a ) as b
where rn <=3;
```

Result Grid | Filter Rows:

name	revenue
The Thai Chicken Pizza	43435
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41410
The Classic Deluxe Pizza	38181
The Hawaiian Pizza	32274
The Pepperoni Pizza	30162
The Spicy Italian Pizza	34832
The Italian Supreme Pizza	33477
The Sicilian Pizza	30941
The Four Cheese Pizza	32266
The Mexicana Pizza	26781