

PIZZA SALES





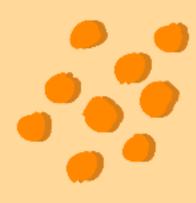








Description



I completed a Pizza Sales Analysis project using MySQL with the pizza_hut database, which includes tables for pizzas, orders, order_details, and pizza_types. The project focused on solving various SQL queries, generating insights such as calculating pizza sales revenue, identifying customer preferences, and analyzing sales trends. This work enhanced my SQL skills and provided valuable data-driven insights for optimizing sales strategies.







Questions



Basic:

Retrieve the total number of orders placed.

Calculate the total revenue generated from pizza sales.

Identify the highest-priced pizza.

Identify the most common pizza size ordered.

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

Intermediate:

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

Determine the distribution of orders by hour of the day.

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

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

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

Advanced:

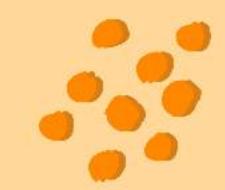
Calculate the percentage contribution of each pizza type to total revenue.

Analyze the cumulative revenue generated over time.

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







-- Retrieve the total number of orders placed.

select

count(order_id) as total_orders
from orders;

Re	sult Grid	43
	total_orders	
•	21350	







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



SELECT

```
ROUND(SUM(order_details.quantity * pizzas.price),

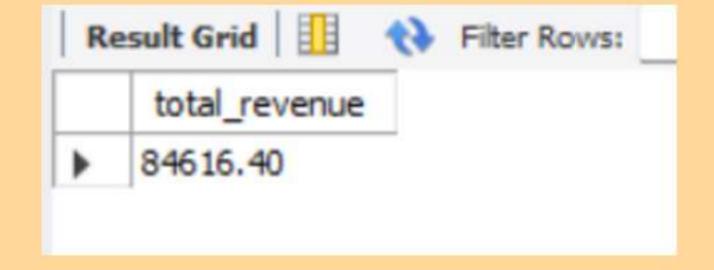
2) AS total_revenue
```

FROM

```
order_details
```

JOIN

pizzas ON order_details.pizza_id = pizzas.pizza_id;

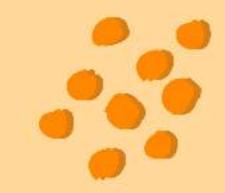








```
-- Identify the highest-priced pizza.
```



SELECT

pizza_types.name, MAX(pizzas.price) AS highest_price

FROM

pizza_types

INNER JOIN

pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
ORDER BY pizzas.price DESC;

▶ The Barbecue Chicken Pizza 35.95		name	highest_price
	•	The Barbecue Chicken Pizza	35.95







-- Identify the most common pizza size ordered.

SELECT

pizzas.size, COUNT(order_details.order_id) as order_id

FROM

pizzas

INNER JOIN

order_details ON pizzas.pizza_id = order_details.pizza_id

GROUP BY pizzas.size

order by order_id desc;

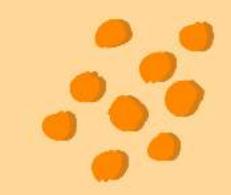
	size	order_id
١	L	1936
	M	1568
	S	1480
	XL	57
	XXL	2







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



```
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
١	The Pepperoni Pizza	288
	The Barbecue Chicken Pizza	259
	The California Chicken Pizza	248
	The Classic Deluxe Pizza	231
	The Hawaiian Pizza	229







-- 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
```

INNER JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

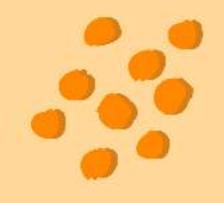
INNER JOIN

order_details ON order_details.pizza_id = pizzas.pizza_id

GROUP BY category

ORDER BY quantity DESC;

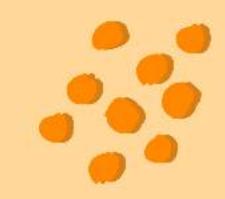
	category	quantity
١	Classic	1534
	Supreme	1274
	Veggie	1227
	Chicken	1100







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



SELECT

HOUR(order_time), COUNT(order_id)

FROM

orders

GROUP BY HOUR(order_time)

ORDER BY HOUR(order_time) ASC;

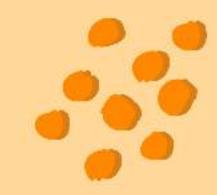
HOUR(order_time)	COUNT (order_id)
9	1
10	8
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642
21	1100







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



select

pizza_types.category as category , count(pizza_types.name)

from pizza_types
group by category;

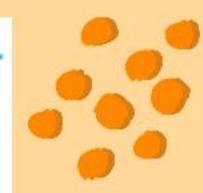
	category	count(pizza_types.name)
٠	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9







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



```
SELECT
```

```
ROUND(AVG(quantity), 0) as avg_order_pizza
```

FROM

(SELECT

```
orders.order_date, SUM(order_details.quantity) AS quantity
```

FROM

orders

```
JOIN order_details ON orders.order_id = order_details.order_id
GROUP BY orders.order_date) AS order_quantity;
```

avg_order_pizza

139







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

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

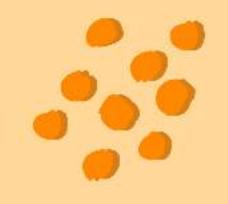
order_details ON order_details.pizza_id = pizzas.pizza_id

GROUP BY pizza_types.name

ORDER BY revenue DESC

LIMIT 3;
```

	name	revenue
١	The Barbecue Chicken Pizza	4618.25
	The California Chicken Pizza	4270.00
	The Thai Chicken Pizza	4170.25



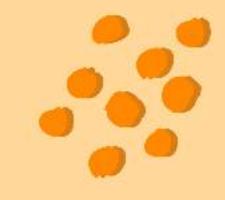






```
-- Calculate the percentage contribution of each pizza type to total revenue.
SELECT
   pizza_types.category,
   ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
                   ROUND(SUM(order_details.quantity * pizzas.price),
                               2) AS total_revenue
               FROM
                   order_details
                        JOIN
                    pizzas ON order_details.pizza_id = pizzas.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
```

	category	revenue
١	Classic	26.73
	Supreme	25.93
	Veggie	24.30
	Chicken	23.04



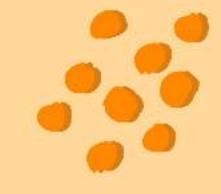






```
-- Analyze the cumulative revenue generated over time.
select order_date , sum(revenue) over (order by order_date) as cum_revenue
from
(select orders.order_date,
sum(order_details.quantity * pizzas.price) as revenue
from
order_details
join
pizzas
on
order_details.pizza_id = pizzas.pizza_id
join
orders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

	order_date	cum_revenue
٠	2015-01-01	2713.85
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.60
	2015-01-05	11929.55
	2015-01-06	14358.50

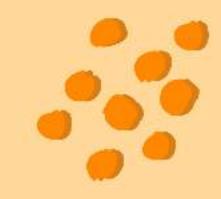






```
-- Determine the top 3 most ordered pizza types based on revenue for each pizza category.
select name, revenue from
(select category , name, revenue , rank() over(partition by category order by revenue desc) as rn
from
(select pizza_types.category , pizza_types.name , sum((order_details.quantity)* pizzas.price ) as revenue
from
pizza_types
join
pizzas
on
pizza_types.pizza_type_id = pizzas.pizza_type_id
join
order_details
order_details.pizza_id = pizzas.pizza_id
group by pizza_types.name , pizza_types.category) as a) as b
where rn<=3;
```

	name	revenue
٠	The Barbecue Chicken Pizza	4618.25
	The California Chicken Pizza	4270.00
	The Thai Chicken Pizza	4170.25
	The Pepperoni Pizza	3608.25
	The Classic Deluxe Pizza	3577.50
	The Hawaiian Dizza	2016 25

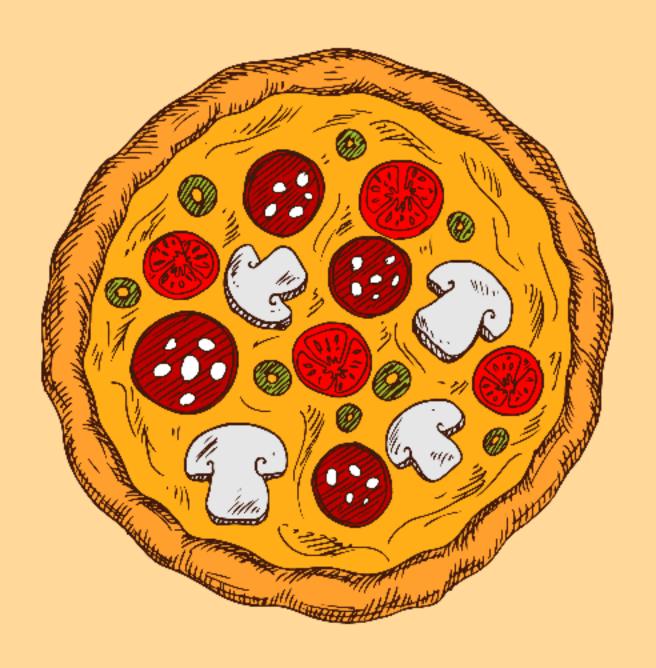












THANK YOU



