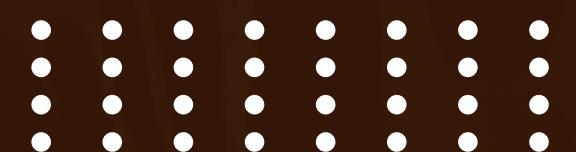


SQL Project on Pizza_Sales

Start Your Slide





ABOUT THIS PROJECT

This project analyzes pizza sales data using SQL to uncover insights. Queries include aggregations, subqueries and ranking functions for deep analysis.



```
create database pizzahut;
```

```
use pizzahut;
```

```
select * FROM pizzas;
```

```
create table orders(  
order_id int not null primary key,  
order_date date not null,  
order_time time not null  
);
```

```
select * FROM orders;
```

| | 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 |

Identify the highest_price pizza



```
SELECT
    name, 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 |



find the total qty of each pizza category ordered

```
SELECT
    category, (SUM(qty)) AS qty_ordered
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    order_detail ON pizzas.pizza_id = order_detail.pizza_id
GROUP BY category
ORDER BY qty_ordered DESC
;
```

| | category | qty_ordered |
|---|----------|-------------|
| ▶ | Classic | 14888 |
| | Supreme | 11987 |
| | Veggie | 11649 |
| | Chicken | 11050 |

Group the orders by date and calc the avg number of pizzas per day



```
SELECT  
    ROUND(AVG(qty_ordered), 0) AS avg_pizza_odr_per_day  
FROM  
    (SELECT  
        order_date AS date, SUM(qty) AS qty_ordered  
    FROM  
        orders  
    JOIN order_detail ON orders.order_id = order_detail.order_id  
    GROUP BY date) AS data  
;
```

| | avg_pizza_odr_per_day |
|---|-----------------------|
| ▶ | 138 |



Top 3 most ordered pizza types based on revenue



```
SELECT
    name, SUM(qty * price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_detail ON pizzas.pizza_id = order_detail.pizza_id
GROUP BY 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 |

Calculate the % contribution of each pizza type to total revenue



```
SELECT
    category,
    ROUND(100 * (SUM(price * qty) / (SELECT
                                            SUM(qty * price) AS total_sales
                                         FROM
                                            order_detail
                                         JOIN
                                            pizzas ON order_detail.pizza_id = pizzas.pizza_id)),
        2) AS perc_contribution
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    order_detail ON pizzas.pizza_id = order_detail.pizza_id
GROUP BY category
;
```

| | category | perc_contribution |
|---|----------|-------------------|
| ▶ | Classic | 26.91 |
| | Veggie | 23.68 |
| | Supreme | 25.46 |
| | Chicken | 23.96 |



ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME



```
select order_date,sum(revenue) over(order by order_date)from(  
select order_date ,sum(qty*price) as revenue  
from orders  
join order_detail  
on orders.order_id=order_detail.order_id  
join pizzas  
on order_detail.pizza_id = pizzas.pizza_id  
group by order_date  
order by order_date)as cum_revenue  
;
```

| | order_date | sum(revenue) over(order_date) |
|---|------------|-------------------------------|
| ▶ | 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 |
| | 2015-01-08 | 19399.05 |
| | 2015-01-09 | 21526.4 |
| | 2015-01-10 | 23990.350000000002 |

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



```
select name,rn from
(select category,name,revenue,( rank() over(partition by category order by revenue desc )) as rn from(
select category,name ,sum(qty*price) as revenue
from pizza_types
join pizzas
on pizza_types.pizza_type_id=pizzas.pizza_type_id
join order_detail
on pizzas.pizza_id =order_detail.pizza_id
group by category,name) as a)as b
where rn<=3
;
```

| | name | rn |
|---|------------------------------|----|
| ▶ | The Thai Chicken Pizza | 1 |
| | The Barbecue Chicken Pizza | 2 |
| | The California Chicken Pizza | 3 |
| | The Classic Deluxe Pizza | 1 |
| | The Hawaiian Pizza | 2 |
| | The Pepperoni Pizza | 3 |
| | The Spicy Italian Pizza | 1 |
| | The Italian Supreme Pizza | 2 |
| | The Sicilian Pizza | 3 |
| | The Four Cheese Pizza | 1 |
| | The Mexicana Pizza | 2 |