Pizza Sales Analysis

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Introducton

I tried to analysis pizzahut sales using mysql. In this analysis tried to find sales using mysql different contents like group by,order by, subquery,window function etc

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

```
select count(*) from pizzahut.orders;
```

IDENTIFY THE HIGHEST-PRICED PIZZA

```
select pt.name,p.price from pizza_types as pt join pizzas as p
on pt.pizza_type_id=p.pizza_type_id order by p.price desc limit 1;
```

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES

```
select round(sum(o.quantity*p.price),2) as total_revenur from
order_details as o join pizzas as p on o.pizza_id=p.pizza_id;
```

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
select p.size,count(o.order_details_id) as common_pizza from
order_details as o join pizzas as p on o.pizza_id=p.pizza_id group by
p.size
order by common_pizza desc limit 1 ;
```

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

select p.pizza_id,count(od.order_id) as common_pizza from

```
select pt.name,sum(od.quantity) as total from pizzas as p join
order_details as od on od.pizza_id=p.pizza_id join pizza_types as pt on
pt.pizza_type_id=p.pizza_type_id group by pt.name order by total desc
limit 5;
```

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

```
select pt.category,sum(od.quantity) as total_quantity from pizza_types as pt join pizzas as p on pt.pizza_type_id=p.pizza_type_id
 join order_details as od on od.pizza_id=p.pizza_id group by pt.category;
```

Determine the distribution of orders by hour of the day

```
select hour(order_time) as hour,count(order_id) as total from orders
group by hour(order_time);
```

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

- select category,count(name) as quantity from pizza_types group by category;

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

- select avg(quantity) from
- (select o.order_date,sum(od.quantity) as quantity from orders as o join order_details as od
- on o.order_id=od.order_id group by o.order_date) as order_quantity;

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

- select pt.name,sum(od.quantity*p.price) as total
- from pizzas as p join pizza_types as pt on p.pizza_type_id=pt.pizza_type_id
- join order_details as od on od.pizza_id=p.pizza_id group by pt.name order by total desc limit 3;

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

```
SELECT  pt.name AS pizza_type_name,SUM(p.price * od.quantity) AS revenue,
    (SUM(p.price * od.quantity) * 100 / total.total_revenue) AS percent_of_total
FROM pizzas as  p JOIN
    order_details od ON p.pizza_id = od.pizza_id
JOIN
    pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
JOIN
    (SELECT SUM(p.price * od.quantity) AS total_revenue
     FROM pizzas p
     JOIN order_details od ON p.pizza_id = od.pizza_id) AS total ON 1=1
GROUP BY pt.name,total.total_revenue;
```

Analyze the cumulative revenue generated over time.

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

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

```
(select name,category,total,
row_number() over(partition by category order by total desc) as ra
from
(select pt.name,pt.category,sum(p.price*od.quantity) as total
from pizzas p join order_details od on od.pizza_id=p.pizza_id
join pizza_types pt on p.pizza_type_id=pt.pizza_type_id
group by pt.category,pt.name) as sales) as a where ra<=3;
```


LOGO
THANK YOU
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