

Pizza Sales SQL Project

Prince Pandit



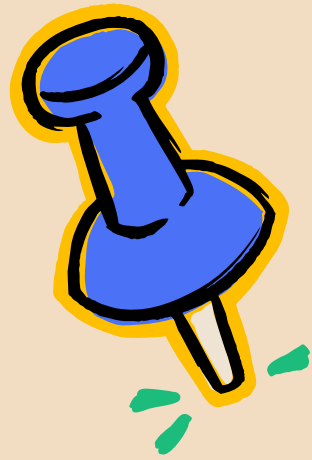


Myself



My name is Prince Pandit being a bachelor student pursuing Artificial Intelligence and Data Science. The key field i am interested in is data science, machine learning etc. I am following the method of project based learning to learn the skills in proper manner as well to use in it the project also..





Pizza Sales SQL Project

- Here i am answering the 13 questions related to the Project by writing the queries.
- There are the 4 dataset used in this project : Orders, Orders_details, Pizzas, Pizza_types.
- The queries are based on three levels: Beginner, Intermediate and Advanced.





Retrieve the total number of orders placed.

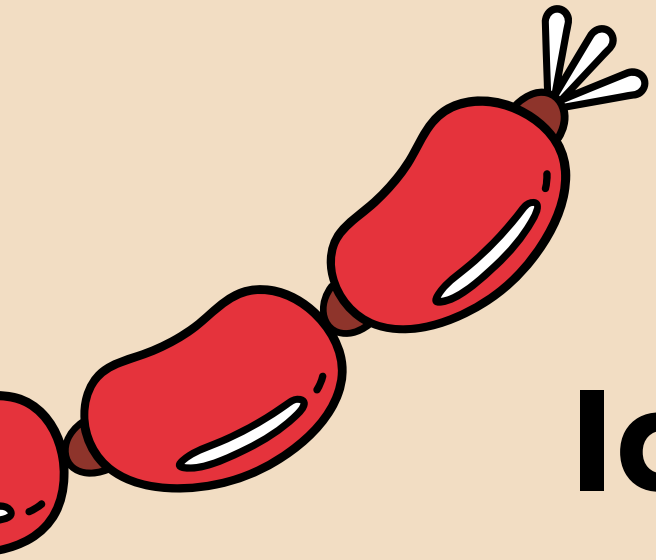


```
select count(order_id) as total_orders  
from pizzahut.orders;
```



Calculate the total revenue generated from pizza sales.

```
SELECT  
  ROUND(SUM(orders_details.quantity * pizzas.price),  
        2) AS total_revenue  
FROM  
  orders_details  
  JOIN  
  pizzas ON pizzas.pizza_id = orders_details.pizza_id
```




Identify the highest price pizza.

```
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;
```





Identify the most pizza size ordered.





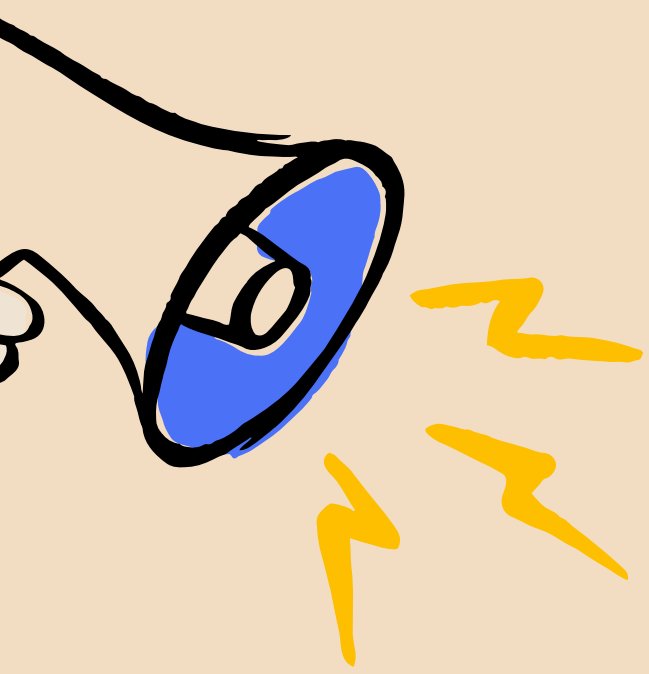
```
select pizzas.size, count(orders_details.order_details_id)
as order_count
from pizzas join orders_details
on pizzas.pizza_id = orders_details.pizza_id
group by pizzas.size order by order_count desc ;
```



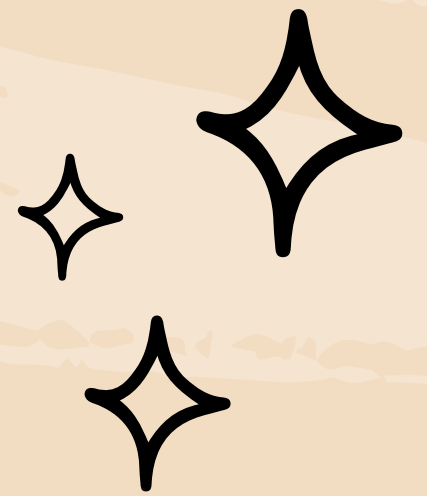

List the top 5 most ordered pizza types along with their quantities.

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





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



```
select pizza_types.category, sum(orders_details.quantity)
as quantity
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details
on orders_details.pizza_id = pizzas.pizza_id
group by pizza_types.category order by quantity desc;
```





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

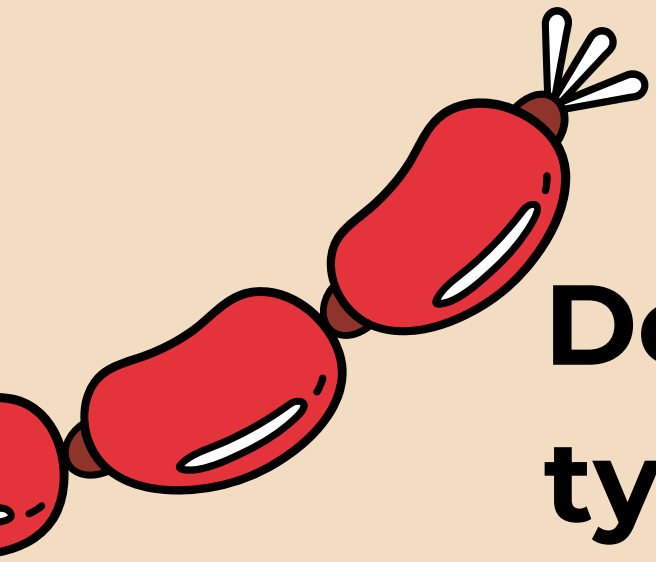


```
select category,count(name)
from pizza_types
group by category;
```



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

```
select avg(quantity) from  
(select orders.order_date, sum(orders_details.quantity) as  
quantity  
from orders join orders_details  
on orders.order_id = orders_details.order_id  
group by orders.order_date) as order_quantity ;
```




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

```
select pizza_types.name,  
sum(orders_details.quantity*pizzas.price)as revenue  
from pizza_types join pizzas  
on pizzas.pizza_type_id = pizza_types.pizza_type_id  
join orders_details  
on orders_details.pizza_id = pizzas.pizza_id  
group by pizza_types.name order by revenue desc  
limit 3;
```





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

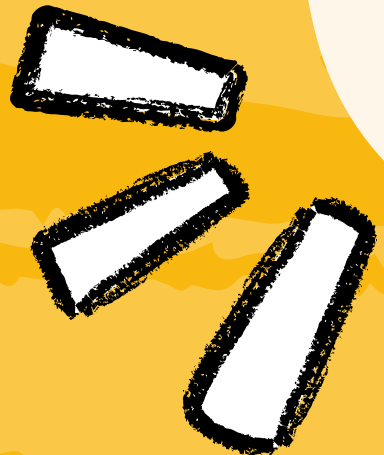



```
SELECT
  pizza_types.category,
  (SUM(orders_details.quantity * pizzas.price) / (SELECT
    ROUND(SUM(orders_details.quantity * pizzas.price),
      2) AS total_sales
  FROM
    orders_details
    JOIN
      pizzas ON pizzas.pizza_id = orders_details.pizza_id)) * 100 AS revenue
FROM
  pizza_types
  JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
  JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC;;
```



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(orders_details.quantity *  
pizzas.price) as revenue  
from orders_details join pizzas  
on orders_details.pizza_id = pizzas.pizza_id  
join orders  
on orders.order_id = orders_details.order_id  
group by orders.order_date) as sales;
```





Determine the top 3 most ordered pizza types based on the 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((orders_details.quantity)*pizzas.price)as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details
on orders_details.pizza_id = pizzas.pizza_id
group by pizza_types.category, pizza_types.name) as a) as b
where rn<=3;
```



Thank You!



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