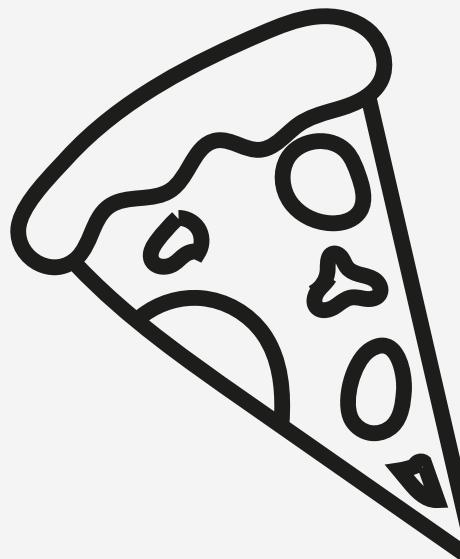


NAME OF PROJECT  
Pizza Sales Insight

DATE  
30/05/2024



# HELLO

I completed a fun SQL project on pizza sales, solving questions. It helped me boost my SQL skills and gain insights.

NAME OF COMPANY  
Pizzacut



PRESENTED BY  
Himanshu Kumar

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Presentation are communication tools that can be used as demonstrations.

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_number_order_placed from orders;
```

total_number_order_placed
21350

# CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

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

REVENUE

817860.05

# IDENTIFY THE HIGHEST-PRICED PIZZA.

```
select max(price) as max_price  
from pizzas;
```

	max_price
▶	35.95

3

# IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT size, COUNT(order_id) AS order_count
FROM order_details
JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id
GROUP BY size
ORDER BY order_count DESC
LIMIT 1;
```

	size	order_count
▶	L	18526

# LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

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

name	total_quantity
The Classic Deluxe Pizza	2453
The Barbeque Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

# JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

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

category	quantity
Classic	14888
Veggie	11649
Supreme	11987
Chicken	11050

# DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
select hour(o.order_time) as Hours ,  
       count(d.order_id) as order_count  
  from orders o  
  join order_details d  
    on o.order_id = d.order_id  
 group by Hours  
order by order_count ;
```

Hours	order_count
9	4
10	17
23	68
22	1370
21	2528
11	2672
15	3170
20	3487

# DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

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

category	cnt
Chicken	6
Classic	8
Supreme	9
Veggie	9

# GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
select o.order_date ,  
avg(d.quantity) as quantity from orders o join order_details  
d on  
d.order_id = o.order_id  
group by o.order_date;
```

order_date	quantity
2015-01-01	1.0062
2015-01-02	1.0313
2015-01-03	1.0260
2015-01-04	1.0000
2015-01-05	1.0331
2015-01-06	1.0208
2015-01-07	1.0376
2015-01-08	1.0117
2015-01-09	1.0325
2015-01-10	1.0069
2015-01-11	1.0175
2015-01-12	1.0085
2015-01-13	1.0256
2015-01-14	1.0417
2015-01-15	1.0000
2015-01-16	1.0194
2015-01-17	1.0246
2015-01-18	1.0252

# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
select t.pizza_type_id,round(sum(p.price* o.quantity),2)
as revenue from pizzas p join order_details o
on o.pizza_id = p.pizza_id join pizza_types t
on t.pizza_type_id = p.pizza_type_id
group by t.pizza_type_id
order by revenue desc limit 3 ;
```

pizza_type_id	revenue
thai_dkn	43434.25
bbq_dkn	42768
cali_dkn	41409.5

# CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
• select t.category,round(sum(p.price* o.quantity),2)/(select round(sum(p.price* o.quantity),2)
  from pizzas p
  join order_details o on o.pizza_id = p.pizza_id)*100 as revenue_pct
from pizzas p
join order_details o on o.pizza_id = p.pizza_id
join pizza_types t
on t.pizza_type_id = p.pizza_type_id
group by t.category
order by revenue_pct ;
```

category	revenue_pct
Veggie	23.682590927384215
Chicken	23.955137556847287
Supreme	25.45631126009884
Classic	26.905960255669658

# ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

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

order_date	revenue
2015-01-01	2713.85
2015-01-02	2731.9
2015-01-03	2662.4
2015-01-04	1755.45
2015-01-05	2065.95
2015-01-06	2428.95
2015-01-07	2202.2
2015-01-08	2838.35
2015-01-09	2127.35
2015-01-10	2463.95
2015-01-11	1872.3
2015-01-12	1919.05
2015-01-13	2049.6
2015-01-14	2527.4
2015-01-15	1984.8
2015-01-16	2594.15
2015-01-17	2064.1
2015-01-18	1976.85

# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

```
> with x as ( select round(sum(p.price* o.quantity),2) as revenue , t.category , t.name from pizzas p
join order_details o on o.pizza_id = p.pizza_id
join pizza_types t
on t.pizza_type_id = p.pizza_type_id group by t.name, t.category ) ,
y as(
select category , name , revenue , rank () over(partition by category order by revenue desc ) as rn from x)
select * from y where rn<=3 ;
```

category	name	revenue	rn
Chicken	The Thai Chicken Pizza	43434.25	1
Chicken	The Barbecue Chicken Pizza	42768	2
Chicken	The California Chicken Pizza	41409.5	3
Classic	The Classic Deluxe Pizza	38180.5	1
Classic	The Hawaiian Pizza	32273.25	2
Classic	The Pepperoni Pizza	30161.75	3
Supreme	The Spicy Italian Pizza	34831.25	1
Supreme	The Italian Supreme Pizza	33476.75	2
Supreme	The Sicilian Pizza	30940.5	3
Veggie	The Four Cheese Pizza	32265.7	1
Veggie	The Mexicana Pizza	26780.75	2
Veggie	The Five Cheese Pizza	26066.5	3

**THANK YOU**