

PIZZA HUT-SELL

Hi , I am Amit.in this project I have utilise to solve the problems in SQL related to pizza sell.



QUESTIONS

1. Retrieve the total number of orders places
 2. Calculate the total revenue generated from pizza sales.
 3. Identify the highest-priced pizza.
 4. Identify the most common pizza size ordered.
 5. List the top 5 most ordered pizza types along with their quantities.
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6. Join the necessary tables to find the total quantity of each pizza category ordere
 7. Determine the distribution of orders by hour of the day.
 8. Group the orders by date and calculate the average number of pizzas ordered per day..
 9. Determine the top 3 most ordered pizza types based on revenue.
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10. Calculate the percentage contribution of each pizza type to total revenue.
 11. Analyze the cumulative revenue generated over time.
 12. Determine the top 3 most ordered pizza types based on revenue for each pizza category


```

1  -- List the top 5 most ordered pizza types
2  -- along with their quantities.
3  • select
4    pizza_types.name,
5    sum(order_details.quantity) as quantity
6  from pizza_types join pizzas
7    on pizza_types.pizza_type_id = pizzas.pizza_type_id
8  join order_details
9    on order_details.pizza_id = pizzas.pizza_id
10 group by pizza_types.name order by quantity desc limit 5;
11
12

```

	name	quantity
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

```

-- 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
    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
ORDER BY quantity DESC;

```

```

1  -- Determine the distribution of orders by hour of the day
2
3  • SELECT
4    HOUR(order_time) AS hour, COUNT(order_id) AS order_count
5  FROM
6    orders
7  GROUP BY HOUR(order_time);

```

	hour	order_count
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198
	22	663

```

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

```

```

SELECT
    ROUND(AVG(quantity),0) avg_pizza_ordered_per_day
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_pizza_ordered_per_day
▶	138

```
-- 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 pizzas.pizza_type_id = pizza_types.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;
```

Result Grid			Filter Rows:
	name	revenue	
▶	The Thai Chicken Pizza	43434.25	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41409.5	

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

```
select pizza_types.category,
    (sum(order_details.quantity*pizzas.price) / (select
        round(sum(order_details.quantity*pizzas.price),
            2) as total_sales
    FROM
        order_details
        JOIN
        pizzas ON pizzas.pizza_id = order_details.pizza_id) ) * 100 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 order by revenue desc;
```

Result Grid			Filter Rows:
	category	revenue	
▶	Classic	26.90596025566967	
	Supreme	25.45631126009862	
	Chicken	23.955137556847287	
	Veggie	23.682590927384577	

```
-- 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;
```

Result Grid |   Filter Rows:

	order_date	cum_revenue
▶	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
	2015-01-11	25862.65
	2015-01-12	27781.7

```
-- 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  
on order_details.pizza_id = pizzas.pizza_id  
group by pizza_types.category,pizza_types.name) as a) as b  
where rn <= 3;
```

Result Grid |   Filter Rows:

	name	revenue
▶	The Five Cheese Pizza	26066.5
	The Mexicana Pizza	26780.75
	The Pepperoni Pizza	30161.75
	The Sicilian Pizza	30940.5
	The Four Cheese Pizza	32265.700000000065
	The Hawaiian Pizza	32273.25
	The Italian Supreme Pizza	33476.75
	The Spicy Italian Pizza	34831.25
	The Classic Deluxe Pizza	38180.5
	The California Chicken Pizza	41409.5
	The Barbecue Chicken Pizza	42768
	The Thai Chicken Pizza	43434.25