PIZZA SALES

SQL PROJECT

PRESENTED BY

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PROBLEM

WE HAVE A PIZZA SALES DATASET WHICH INCLUDES NAMES,CONTENTS, ID'S
ORDER DATES, ORDER TIME , QUANTITY ORDERED, PRICE IN FOUR TABLES
PIZZAS, PIZZA TYPES, ORDERS, ORDER DETAILS

WE ANALYZED THESE DATASSETS AND PERFORMED QUERY OPERATIONS TO DERIVE THE FOLLOWING RESULTS

Retrieve the total number of orders placed

```
select count(*) as total_orders
 from orders
```

	total_orders
▶	21350

Calculate the total revenue generated from pizza sales.

```
SELECT
    ROUND(SUM(order_details.quantity * pizzas.
            2) AS total
FROM
    order_details
        JOIN
```

	total
▶	817860.05

Identify the highest-priced pizza.

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

	name	price
▶	The Greek Pizza	35.95

Identify the most common pizza size ordered.

```
select pizzas.size,count(order_details.order_details_id) as maxOrder
from pizzas
join order_details
on pizzas.pizza_id=order_details.pizza_id
group by pizzas.size
order by maxOrder desc
-- limit 1
```

size	maxOrder
L	18526
M	15385
S	14137
XL	544
XXL	28

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

```
select pizza_types.name,sum(order_details.quantity) as quantity
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 quantity desc
limit 5
```

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

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
```

	category	Quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

Determine the distribution of orders by hour of the day.

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

hour	orders
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642
21	1198
22	663
23	28
10	8
9	1

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

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

	category	count(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

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

```
select round(avg(quantity),0) as average 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 a;
```

	average
▶	138

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

```
select pizza_types.name , round(sum(order_details.quantity*pizzas.price),2) 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.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 percentage contribution of each pizza type to total revenue.

```sql
SELECT
    pizza_types.category,
    ROUND(SUM(pizzas.price * order_details.quantity) / (SELECT
                    SUM(pizzas.price * order_details.quantity)
                FROM
                    pizzas
                        JOIN
                    order_details ON pizzas.pizza_id = order_details.pizza_id) * 100,
            2) AS percentage_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
```

	category	percentage_revenue
▶	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) as cum_rev
from
(select orders.order_date,sum(pizzas.price * order_details.quantity) 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 limit 7) as sales
```

order_date	cum_rev
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

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(pizzas.price * order_details.quantity) as revenue
from order_details
join pizzas
on order_details.pizza_id=pizzas.pizza_id
join pizza_types
on pizzas.pizza_type_id=pizza_types.pizza_type_id
group by pizza_types.category,pizza_types.name) as a) as b
where rn<=3;
```

name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5
The Classic Deluxe Pizza	38180.5
The Hawaiian Pizza	32273.25
The Pepperoni Pizza	30161.75
The Spicy Italian Pizza	34831.25
The Italian Supreme Pizza	33476.75
The Sicilian Pizza	30940.5
The Four Cheese Pizza	32265.70000000065
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.5

THANKYOU!