PIZZA SALES REPORT

OVERVIEW

The objective of this project is to utilize SQL to analyze and derive valuable insights from a dataset related to pizza sales. The analysis will focus on various metrics including order quantities, revenue generation, popular pizza types, and order distribution. This information will help in understanding customer preferences and optimizing sales strategies.

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

QUERY:

```
SELECT count(order_id) AS total_orders FROM orders;
```

OUTPUT:

total_orders
21350

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

QUERY:

```
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
```

OUTPUT:

total_sales
391841.95

IDENTIFY THE HIGHEST-PRICED PIZZA

QUERY:

```
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;
```

OUTPUT:

	name	price
▶	The Greek Pizza	35.95

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

QUERY:

```
SELECT pizzas.size, count(order_details.order_details_id) as order_count
from pizzas join order_details
on order_details.pizza_id = pizzas.pizza_id
group by pizzas.size
order by order_count DESC LIMIT 1;
```

OUTPUT:

	size	order_count
▶	L	8902

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

QUERY:

```
SELECT pizza_types.name,
sum(order_details.quantity) as qty
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 qty desc limit 5;
```

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

OUTPUT:

name	qty
The Barbecue Chicken Pizza	1202
The Hawaiian Pizza	1146
The Pepperoni Pizza	1144
The Classic Deluxe Pizza	1127
The California Chicken Pizza	1123

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

QUERY:

```
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;
```

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

OUTPUT:

category	quantity
Classic	7049
Supreme	5769
Veggie	5654
Chicken	5247

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

QUERY:

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

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

OUTPUT:

hours	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
23	28
10	8
9	1

JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS

QUERY:

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

JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS

OUTPUT:

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

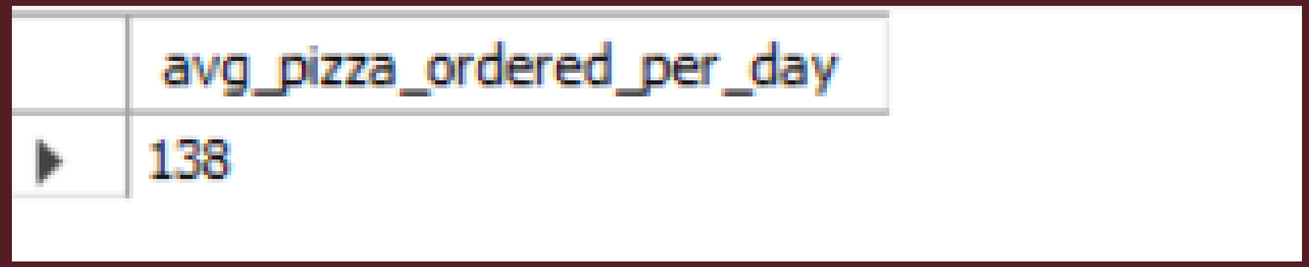
GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

QUERY:

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

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

OUTPUT:



avg_pizza_ordered_per_day
138

THANK YOU

02 May, 2024