Delicious

PIZZA

@reallygreatsite

Hello!

my name is mashkura.in this project i have utilize SQL query to solve a set of question that where related to pizza sale.

Data set

Pizza Sale dataset

-- 1) Retrieve the total number of orders placed.

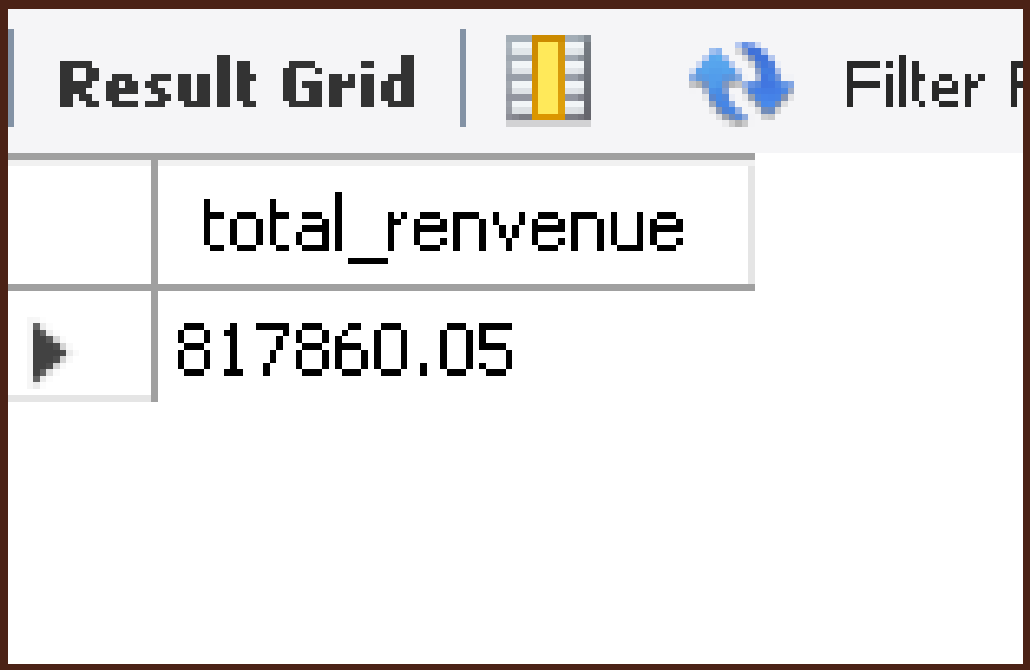
```sql
SELECT
    COUNT(order_id) AS total_orders
FROM
    orders;
```

Result Grid | Filt

	total_orders
▶	21350

-- 2) Calculate the total revenue generated from pizza sales.agraph text

```sql
SELECT
    ROUND(SUM(od.quantity * pz.price), 2) AS total_renvenue
FROM
    order_details AS od
        JOIN
    pizzas AS pz ON od.pizza_id = pz.pizza_id;
```



-- 3) Identify the highest-priced pizza.

```sql
SELECT
    pt.name, pz.price
FROM
    pizza_types AS pt
        JOIN
    pizzas AS pz ON pt.pizza_type_id = pz.pizza_type_id
ORDER BY pz.price DESC
LIMIT 1;
```

Result Grid | Filter Rows:

	name	price
▶	The Greek Pizza	35.95

-- 4) Identify the most common pizza size ordered.

```sql
SELECT
    COUNT(od.order_id) AS Total_count_pizza, pz.size
FROM
    pizzas AS pz
        JOIN
    order_details AS od ON pz.pizza_id = od.pizza_id
GROUP BY pz.size
ORDER BY Total_count_pizza DESC;
```

Result Grid | Filter Rows:

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

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

```sql
SELECT
    pt.name, SUM(od.quantity) AS quantity
FROM
    pizza_types AS pt
        JOIN
    pizzas AS pz ON pt.pizza_type_id = pz.pizza_type_id
        JOIN
    order_details AS od ON pz.pizza_id = od.pizza_id
GROUP BY pt.name
ORDER BY quantity DESC
LIMIT 5;
```

Result Grid | Filter Rows:

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

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

```sql
SELECT
    pt.category, SUM(od.quantity) AS quantity
FROM
    pizza_types AS pt
        JOIN
    pizzas AS pz ON pt.pizza_type_id = pz.pizza_type_id
        JOIN
    order_details AS od ON od.pizza_id = pz.pizza_id
GROUP BY pt.category
ORDER BY quantity DESC;
```

Result Grid | Filter Rows:

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

-- 7) Determine the distribution of orders by hour of the day.

```sql
SELECT
    HOUR(order_time) AS hour_of_the_day, COUNT(order_id)
FROM
    orders
GROUP BY hour_of_the_day;
```

Result Grid | Filter Rows:

hour_of_the_day	COUNT(order_id)
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642
21	1198

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

```sql
SELECT
    COUNT(name), category
FROM
    pizza_types
GROUP BY category;
```

Result Grid | Filter Rows:

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

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

```sql
SELECT
    ROUND(AVG(quantity),0)
FROM
    (SELECT
        ods.order_date, SUM(od.quantity) as quantity
    FROM
        orders AS ods
    JOIN order_details AS od ON ods.order_id = od.order_id
    GROUP BY ods.order_date) AS order_quantity;
```

Result Grid | Filter Rows:

ROUND(AVG(quantity),0)
138

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

```sql
SELECT
    pt.name,
    ROUND(SUM(od.quantity * pz.price), 2) AS total_renvenue
FROM
    pizza_types AS pt
        JOIN
    pizzas AS pz ON pt.pizza_type_id = pz.pizza_type_id
        JOIN
    order_details AS od ON od.pizza_id = pz.pizza_id
GROUP BY pt.name
ORDER BY total_renvenue DESC
LIMIT 3;
```

Result Grid | Filter Rows: | Export:

name	total_renvenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5

Result 10

-- 11) Calculate the percentage contribution of each pizza type to total revenue.
-- (revenue/total_sales*100) formula

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

Result Grid | Filter Rows:

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

Result 11

-- 12) Analyze the cumulative revenue generated over time.

-- cumulative mean every day how much amount we have earns

-- ex: today earn 200,400 / cumulative 200+400=600

```sql
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

Result 12

-- 13)Determine the top 3 most ordered pizza types
-- based on revenue for each pizza category.

```sql
select name,total_revenue from
(
select category,name,total_revenue,
rank() over(partition by category order by total_revenue ) as rn
from (
SELECT
    pt.name,pt.category,
    ROUND(SUM(od.quantity * pz.price), 2) AS total_revenue
FROM
    pizza_types AS pt
        JOIN
    pizzas AS pz ON pt.pizza_type_id = pz.pizza_type_id
        JOIN
    order_details AS od ON od.pizza_id = pz.pizza_id
GROUP BY pt.name,pt.category) as a) as b
where rn <=3;
```

Result Grid | Filter Rows: | Export:

name	total_revenue
The Chicken Pesto Pizza	16701.75
The Chicken Alfredo Pizza	16900.25
The Southwest Chicken Pizza	34705.75
The Pepperoni, Mushroom, and Peppers Pizza	18834.5
The Big Meat Pizza	22968
The Napolitana Pizza	24087
The Brie Carre Pizza	11588.5
The Spinach Supreme Pizza	15277.75
The Calabrese Pizza	15934.25
The Green Garden Pizza	13955.75
The Mediterranean Pizza	15360.5

Result 13