PIZZA_SALE TEMPLATE

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SQL_PROJECT

PROJECT_ON_PIZZA-SALE_BUSINESS

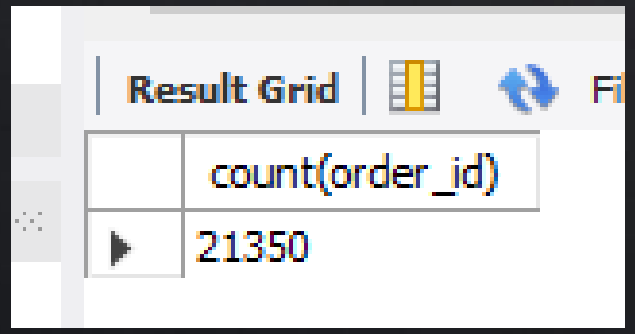
CREATE PIZZA_HUT

1. FIRSTLY CREATE PIZZA_HUT DATASET
2. UPLOAD THE DATASETS FROM CSV
3. APPLING THE QUERIES TO FIND VALUABLE INSIGHTS.

Retrieve the total number of orders placed

Solution:

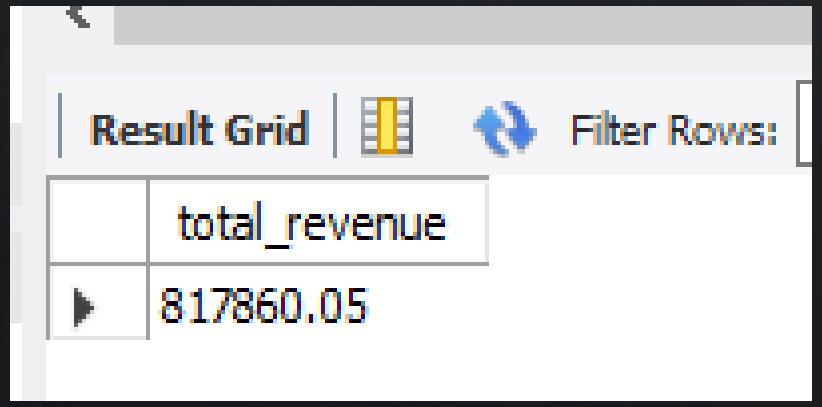
```
select * from orders;
select count(order_id) from orders;
```



Calculate the total revenue generated from pizza sales.

Solution:

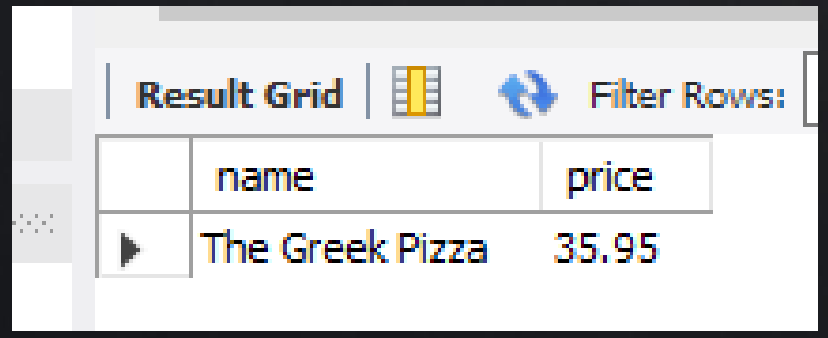
```
select
round(SUM(order_details.quantity * pizzas.price),2) as total_revenue
from order_details inner join pizzas
on order_details.pizza_id = pizzas.pizza_id
```



Identify the highest-priced pizza.

Solution:

```
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;
```



Identify the most common pizza size ordered

Solution:

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

Result Grid | Filter R

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

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

Solution:

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

Result Grid | Filter Rows:

name	quantity_details
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.

Solution:

```sql
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS qunatity
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;
-- Determine the distribution of orders by hour of the day.

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

Result Grid | Filter Rows:

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

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

Solution:

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

Result Grid | Filter Ro

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

Determine the distribution of orders by hour of the day.

Solution:

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

Result Grid | Filter Rows:

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

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

Solution:

```
SELECT
    ROUND(AVG(quantity), 0) AS avg_pizza_ordered_per_day
FROM
    (SELECT
        orders.date, SUM(order_details.quantity) AS quantity
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.date) AS order_qunatity;
```

Result Grid | Filter Rows:

avg_pizza_ordered_per_day
138

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

Solution:

```sql
SELECT
    pizza_types.name,
    SUM(pizzas.price * order_details.quantity) 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

Analyze the cumulative revenue generated over time.

Solution:

```sql
select date,
sum(revenue) over(order by date) as cum_revenue
from
(select orders.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.date) as sales;
```

Result Grid | Filter Rows:

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

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

Solution:

```
 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_type.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_type.name) as a) as b
where rn<=3;
```

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

Solution:

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

WE FIND SOME INSIGHTS FOR PIZZA_SALE

- *HERE WE FIND THE TOTAL NUMBERS OF ORDER PLACED BY CUSTOMERS.*
- *FIND THE TOTAL REVENUE GENERATED FROM PIZZA SALES.*
- *FIND THE HIGHEST PRICED PIZZA NAME AND AMOUNT.*
- *FIND THE MOST COMMON PIZZA SIZE ORDERD MAXIMUM.*
- *FIND TOP 5 MOST ORDERED PIZZA TYPES WITH HIS QUANTITY.*
- *FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY.*
- *FIND THE TOTAL DISTRIBUTION OF PIZZA ON HOUR OF DAY.*
- *FIND THE CATEGORY WISE DISTRIBUTION OF PIZZA.*
- *FIND THE AVERAGE NUMBER OF PIZZA ORDER PER DAY.*
- *FIND THE TOP 3 MOST ORDERED PIZZA BASED ON THE REVENUE.*
- *FIND THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE ACCORDING TO REVENUE.*

THANK YOU

SHAHRUKH KHAN