PIZZA SALES PROJECT

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Hi My Name is Punit ,in this project i have utilize SQL queries to slove question that were releated to Pizza sales

1.Retrieve the total number of orders placed.

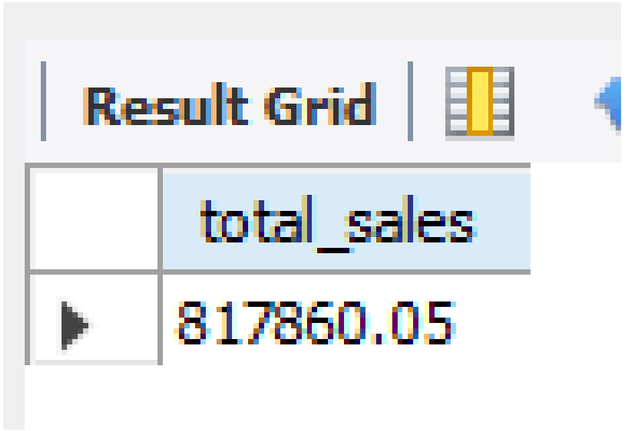
```sql
SELECT
    COUNT(ord_id) AS total_order
FROM
    orders;
```

Result Grid

	total_order
▶	21350

2.Calculate the total revenue generated from pizza sales.

```
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;
```



3.Identify the highest-priced pizza.

```
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;
```

Result Grid | Filter Rows:

	name	price
▶	The Greek Pizza	35.95

4. Identify the most common pizza size ordered.

```
select pizzas.size,count(order_details.order_details_id) as order_total
from pizzas join order_details
on pizzas.pizza_id=order_details.pizza_id
group by pizzas.size
order by order_total desc;
```

Result Grid | Filter R

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

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

```
select pizza_types.name,sum(order_details.quantity)as total_qnty
from pizza
on pizza_t
join order
on order_d
group by p
order by t
limit 5;
```

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

	name	total_qnty
	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 pizza_types.category,sum(order_details.quantity)as total_qnty
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 total_qnty desc
limit 5;
```

category	total_qnty
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

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

```
select hour(ord_time) as Hour,count(ord_id) as ord_count from orders
group by hour(ord_time);
```

Hour	ord_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

8.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

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

```
select round(avg(qnty),0) as avg_pizza from
 (select orders.ord_date,sum(order_details.quantity) as qnty
 from orders join order_details
 on orders.ord_id=order_details.order_id
 group by orders.ord_date) as ord_qnty;
```

Result Grid

	avg_pizza
▶	138

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

```sql
select pizza_types.name,round(sum(order_details.quantity*pizzas.price),0) 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 pizza_types.name
limit 3;
```

name	revenue
The Barbecue Chicken Pizza	42768
The Big Meat Pizza	22968
The Brie Carre Pizza	11588

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

```
select pizza_types.category,
round(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) *100,2) 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 pizza_types.category;
```

	category	revenue
▶	Chicken	23.96
	Classic	26.91
	Supreme	25.46
	Veggie	23.68

12.Analyze the cumulative revenue generated over time.

```
select ord_date,revenue,sum(revenue) over (order by ord_date) as cum_revenue
from
(select orders.ord_date,
sum(order_details.quantity*pizzas.price)as revenue
FROM order_details JOIN pizzas
ON pizzas.pizza_id = order_details.pizza_id
join orders
on orders.ord_id=order_details.order_id
group by orders.ord_date) as sales;
```

	ord_date	revenue	cum_revenue
▶	2015-01-01	2713.8500000000004	2713.8500000000004
	2015-01-02	2731.8999999999996	5445.75
	2015-01-03	2662.3999999999996	8108.15
	2015-01-04	1755.4500000000003	9863.6
	2015-01-05	2065.95	11929.55

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

```sql
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 pizzas.pizza_type_id = pizza_types.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;
```

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