SQL PROJECT ON PIZZA SALES

Hello, I am Kiran Kumar. I have contributed to the GitHub project titled "Pizza Sales" by employing SQL queries in my work.

1.Retrieve the total number of orders placed.

```
select count(order_id) as Total_Orders from orders;
```

Result Grid

Total_Orders
21350

2. Calculate the total revenue generated from pizza sales.

```
select sum(orders_details.quantity * pizzas.price) as Total_Sales
from orders_details join pizzas
on pizzas.pizza_id = orders_details.pizza_id;
```

Result Grid | Filter

	Total_Sales
▶	817860.049999993

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:

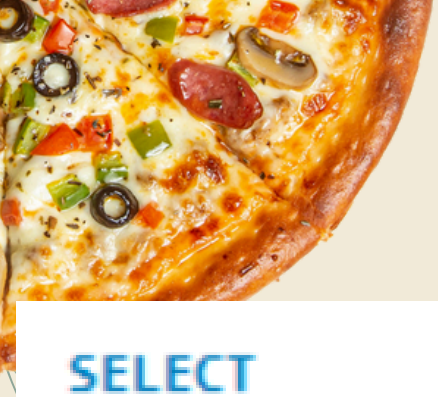
	name	price
▶	The Greek Pizza	35.95

4.Identify the most common pizza size ordered.

```sql
SELECT
    pizzas.size,
    COUNT(DISTINCT order_id) AS 'No. of Orders',
    SUM(quantity) AS 'Total Qty'
FROM
    orders_Details
        JOIN
    pizzas ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizzas.size
ORDER BY COUNT(DISTINCT order_id) DESC;
```

Result Grid | Filter Rows:

size	No. of Orders	Total Qty
L	12736	18956
M	11159	15635
S	10490	14403
XL	544	552
XXL	28	28

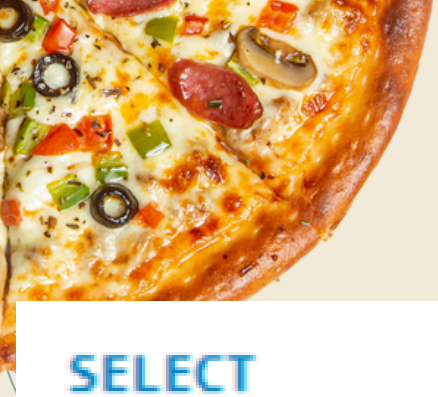


5.List the top 5 most ordered pizza types along with their quantities.

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

Result Grid | Filter Rows:

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



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        JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY Qty DESC
LIMIT 5;
```

Result Grid | Filter Rows:

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The Barbecue Chicken Pizza	2432
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The Pepperoni Pizza	2418
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6. Join the necessary tables to find the total quantity of each pizza category ordered.

```sql
SELECT
    pizza_types.category AS 'Pizza type',
    SUM(orders_details.quantity) AS 'Total Qty'
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY 'Total Qty' DESC;
```

Result Grid | Filter Rows:

Pizza type	Total Qty
Classic	14888
Veggie	11649
Supreme	11987
Chicken	11050

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

```sql
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
	22	663
	23	28
	10	8
	9	1

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

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

Result Grid | Filter Row

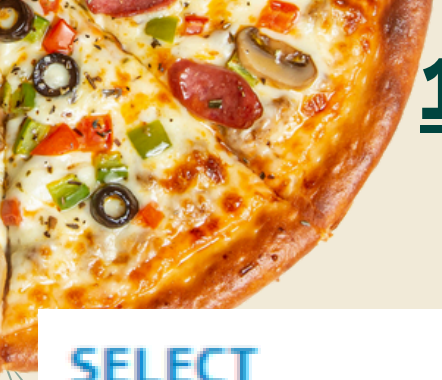
category	count(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9

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

```sql
SELECT
    AVG(Qty)
FROM
    (SELECT
        orders.date, SUM(orders_details.quantity) AS Qty
    FROM
        orders
    JOIN orders_details ON orders.order_id = orders_details.order_id
    GROUP BY orders.date) AS Average_Qty;
```

Result Grid

	avg(Qty)
▶	138.4749



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

```sql
SELECT
    pizza_types.name,
    SUM(orders_details.quantity * pizzas.price) AS 'Revenue'
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY Revenue DESC
LIMIT 3;
```

Result Grid | Filter Rows:

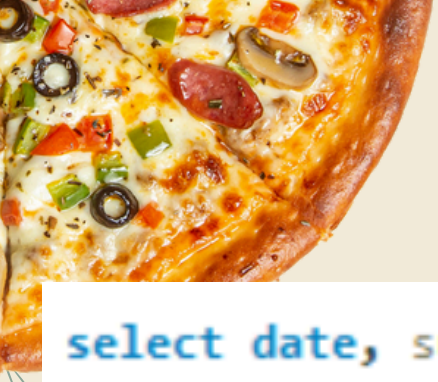
name	Revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5

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

```sql
select pizza_types.category,
round( sum(orders_details.quantity*pizzas.price) / (select
round(sum(orders_details.quantity*pizzas.price), 2) as 'Total Sales'
from orders_details join pizzas on pizzas.pizza_id = orders_details.pizza_id) *100,2)
as 'Revenue'
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details on orders_details.pizza_id = pizzas.pizza_id
group by pizza_types.category
order by revenue desc;
```

Result Grid | Filter

category	Revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

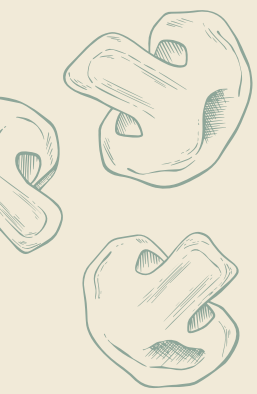


12.Analyze the cumulative revenue generated over time.

```sql
select date, sum(revenue) over (order by date) as 'Cumulative Revenue'
from
(select orders.date, sum(orders_details.quantity * pizzas.price) as 'revenue'
from orders_details join pizzas
on orders_details.pizza_id = pizzas.pizza_id
join orders on orders.order_id = orders_details.order_id
group by orders.date) as Sales;
```

Result Grid | Filter Rows:

	date	Cumulative 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
	2015-01-12	27781.7
	2015-01-13	29831.300000000003



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,
Dense_Rank() over(partition by category order by Revenue desc) as 'Rank'
from
(select pizza_types.category, pizza_types.name,
sum((orders_details.quantity)*pizzas.price) as 'Revenue'
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details on orders_details.pizza_id = pizzas.pizza_id
group by pizza_types.category, pizza_types.name) as a) as b
where 'Rank' <= 3;
```

Result Grid | Filter Rows:

name	Revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5
The S	75
The Chicken Alfredo Pizza	16900.25
The Chicken Pesto Pizza	16701.75
The Classic Deluxe Pizza	38180.5
The Hawaiian Pizza	32273.25

The California Chicken Pizza