

PIZZA SALES



Hello!

My name is Ramyarupa Mohanty. In this project i have utilized SQL query to solve questions realated to Pizza sales.





What is SQL?

- SQL stands for Structured Query Language
- SQL lets you access and manipulate databases
- SQL became a standard of the American National Standards Institute (ANSI) in 1986, and of the International Organization for Standardization (ISO) in 1987

Retrieve the total number of orders placed.

```
1 -- Retrieve the total number of orders placed.  
2  
3 • select count(order_id) as total_orders from orders;
```

Result Grid	
	total_orders
▶	21350





Calculate the total revenue generated from pizza sales.

```
3 • SELECT
4   ROUND(SUM(order_details.quantity * pizzas.price),
5         2) AS total_sales
6 FROM
7   order_details
8   JOIN
9   pizzas ON pizzas.pizza_id = order_details.pizza_id
```

Result Grid	
	total_sales
▶	817860.05

Identify the highest-priced pizza.

```
3 · SELECT
4     pizza_types.name, pizzas.price
5   FROM
6     pizza_types
7       JOIN
8     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9 ORDER BY pizzas.price DESC
10 LIMIT 1;
```

Result Grid

Filter Rows

name	price
The Greek Pizza	35.95





Identify the most common pizza size ordered.



```
3 • SELECT
4     pizzas.size,
5     COUNT(order_details.order_details_id) AS order_count
6 FROM
7     pizzas
8     JOIN
9         order_details ON pizzas.pizza_id = order_details.pizza_id
10 GROUP BY pizzas.size
11 ORDER BY order_count DESC;
```

	order_details_id	order_id	pizza_id	quantity
▶	1	1	hawaiian_m	1
	2	2	classic_dlx_m	1
	3	2	five_cheese_l	1
	4	2	ital_supr_l	1
	5	2	mexicana_m	1
	6	2	thai_dkn_l	1
	7	3	ital_supr_m	1
	8	3	prsc_argla_l	1
	9	4	ital_supr_m	1
	10	5	ital_supr_m	1
	11	6	bbq_dn_s	1
	12	6	the_greek_s	1
	13	7	spinach_supr_s	1
	14	8	spinach_supr_s	1
	15	9	spinach_supr_s	1



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

```
4 • SELECT
5     pizza_types.name, SUM(order_details.quantity) AS quantity
6 FROM
7     pizza_types
8     JOIN
9     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
10    JOIN
11    order_details ON order_details.pizza_id = pizzas.pizza_id
12 GROUP BY pizza_types.name
13 ORDER BY quantity DESC
14 LIMIT 5;
```

Result Grid		
	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



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

```
3
4• select pizza_types.category,
5  sum(order_details.quantity) as quantity
6  from pizza_types join pizzas
7  on pizza_types.pizza_type_id = pizzas.pizza_type_id
8  join order_details
9  on order_details.pizza_id = pizzas.pizza_id
10 group by pizza_types.category order by quantity desc;
```

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050



Determine the distribution of orders by hour of the day.

```
3 • SELECT  
4      HOUR(order_time) AS hour, COUNT(order_id) AS order_count  
5  FROM  
6    orders  
7 GROUP BY HOUR(order_time);
```

Result Grid		
	hour	order_count
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399

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

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

Result Grid	
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.

```
4· select round(avg(quantity),0) from
5 ·(select orders.order_date, sum(order_details.quantity) as quantity
6 | from orders join order_details
7 | on orders.order_id = order_details.order_id
8 | group by orders.order_date) as order_quantity ;
```

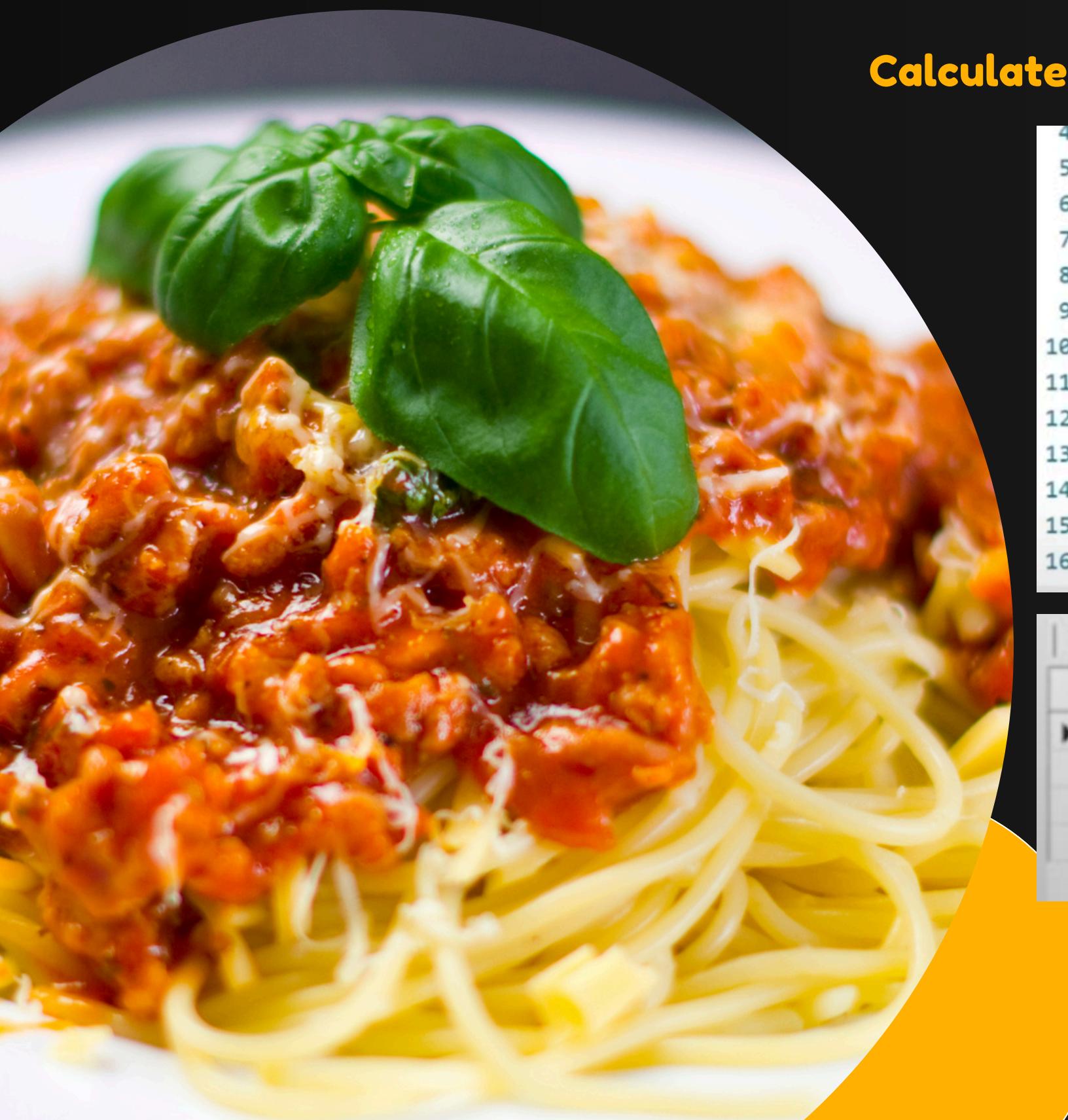
Result Grid	
	round(avg(quantity),0)
▶	138

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

```
3• select pizza_types.name,  
4 sum(order_details.quantity * pizzas.price) as revenue  
5 from pizza_types join pizzas  
6 on pizzas.pizza_type_id = pizza_types.pizza_type_id  
7 join order_details  
8 on order_details.pizza_id = pizzas.pizza_id  
9 group by pizza_types.name order by revenue desc limit 3;
```

Result Grid		
	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5





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

```
4 • select pizza_types.category,  
5   round(sum(order_details.quantity*pizzas.price) / (SELECT  
6     ROUND(SUM(order_details.quantity * pizzas.price),  
7       2) AS total_sales  
8   FROM  
9     order_details  
10    JOIN  
11      pizzas ON pizzas.pizza_id = order_details.pizza_id) *100,2) as revenue  
12  from pizza_types join pizzas  
13  on pizza_types.pizza_type_id = pizzas.pizza_type_id  
14  join order_details  
15  on order_details.pizza_id = pizzas.pizza_id  
16  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

Analyze the cumulative revenue generated over time.

```
3 • select order_date,  
4   sum(revenue) over(order by order_date) as cum_revenue  
5   from  
6   (select orders.order_date,  
7     sum(order_details.quantity * pizzas.price) as revenue  
8     from order_details join pizzas  
9     on order_details.pizza_id = pizzas.pizza_id  
10    join orders  
11    on orders.order_id = order_details.order_id  
12   group by orders.order_date) as sales;
```

Result Grid		
	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





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

```
3 • select name, revenue from
4   (select category, name, revenue,
5    rank() over(partition by category order by revenue desc) as rn
6    from
7   (select pizza_types.category, pizza_types.name,
8    sum((order_details.quantity) * pizzas.price) as revenue
9    from pizza_types join pizzas
10   on pizza_types.pizza_type_id = pizzas.pizza_type_id
11   join order_details
12   on order_details.pizza_id = pizzas.pizza_id
13   group by pizza_types.category, pizza_types.name) as a) as b
14  where rn <= 3;
```