

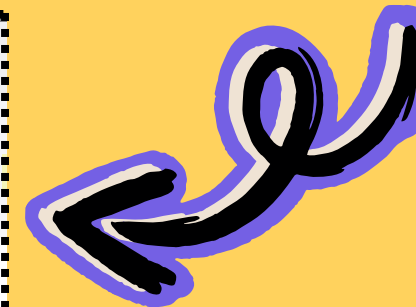
**In this project, we'll look into a fictional pizza delivery database to uncover valuable insights and trends that could drive better business decisions. Using SQL queries, we'll**

- **Analyze order trends by calculating the total number of orders and revenue.**
- **Spot customer preferences by identifying the most popular pizza size and the top 5 pizza types ordered.**
- **Highlight key performers like the highest-priced pizza and top-revenue generators.**
- **Explore ordering patterns by breaking down order distribution by hours and days.**
- **Slice the data further to understand pizza demand by category and revenue contribution.**
- **Through table joins, groupings, and aggregations, this project showcases how SQL can turn raw data into actionable insights for any business.**

# 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.

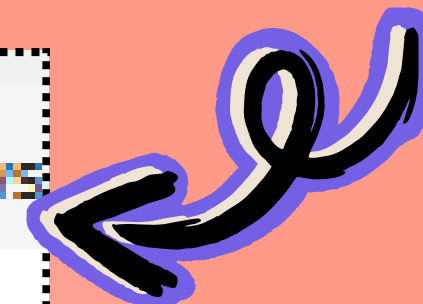
```
3  ●  SELECT
4      ROUND(SUM(order_details.quantity * pizzas.price),
5              2) AS total_sales
6  FROM
7      order_details
8      JOIN
9      pizzas ON pizzas.pizza_id = order_details.pizza_id
```

Result Grid	
	total_sales
▶	817860.05

### 3) Identify the highest-priced pizza.

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

Result Grid			Filter Rows
	name	price	
▶	The Greek Pizza	35.95	



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

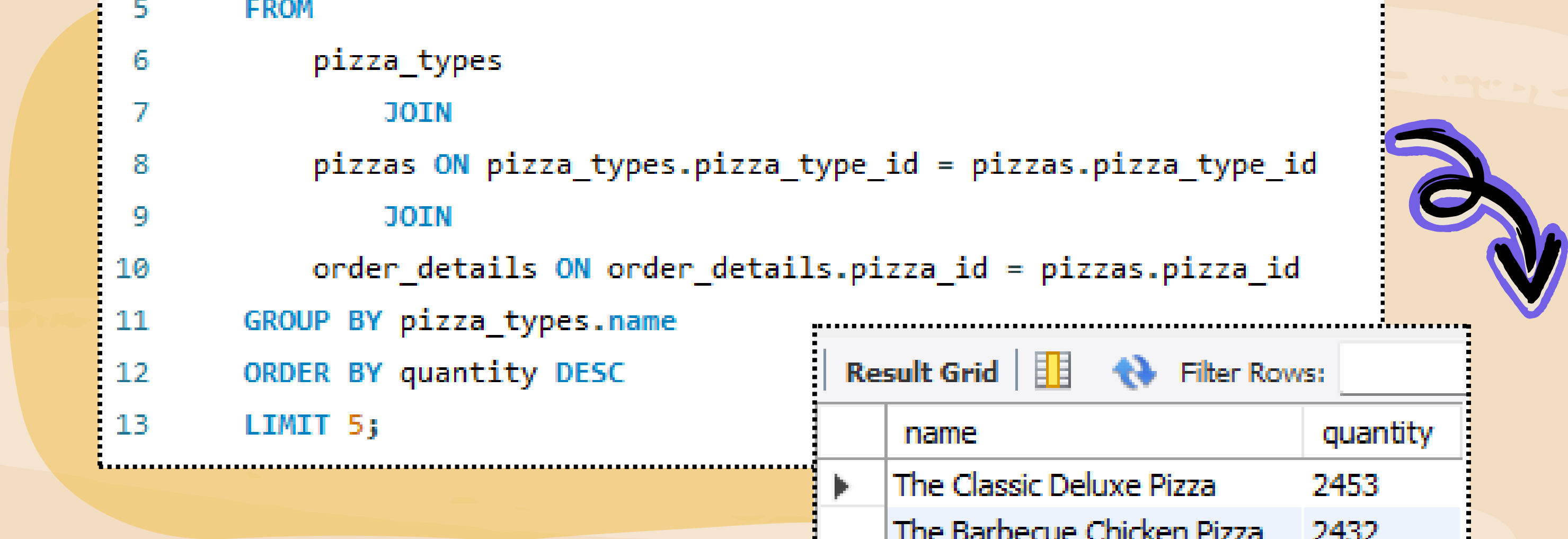
```
3 • SELECT
4     pizzas.size,
5     COUNT(order_details.order_details_id) AS order_count
6 FROM
7     pizzas
8     JOIN
9     order_details ON pizzas.pizza_id = order_details.pizza_id
10 GROUP BY pizzas.size
11 ORDER BY order_count DESC;
```

Result Grid		Filter Row
size	order_count	
L	18526	
M	15385	15385
S	14137	
XL	544	
XXL	28	



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

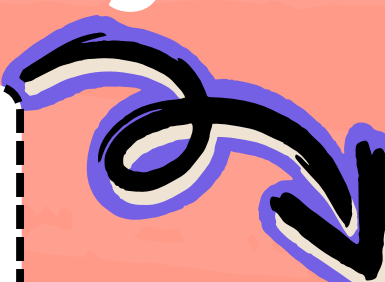
```
3 • SELECT
4     pizza_types.name, SUM(order_details.quantity) AS quantity
5 FROM
6     pizza_types
7     JOIN
8     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9     JOIN
10    order_details ON order_details.pizza_id = pizzas.pizza_id
11 GROUP BY pizza_types.name
12 ORDER BY quantity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

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

```
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			Filter
	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	





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

```
2 • SELECT
3     category, COUNT(name)
4 FROM
5     pizza_types
6 GROUP BY category;
```

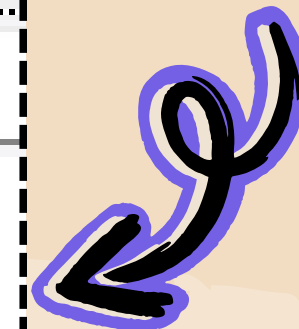
Result Grid		Filter Rows
	category	count(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



## 9) 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  
8      order_details  
9      on order_details.pizza_id = pizzas.pizza_id  
10     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		



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

```
4 • SELECT
5     ROUND(AVG(quantity), 0) as avg_pizzas_ordered_perday
6 FROM
7     (SELECT
8         orders.order_date, SUM(order_details.quantity) AS quantity
9     FROM
10        orders
11     JOIN order_details ON orders.order_id = order_details.order_id
12     GROUP BY orders.order_date) AS order_quantity;
```

Result Grid		 Filter R	
	round(avg(quantity),0)		
	138		



**THANKS**