

# SQL for Data Analysis

## -----Basis-question-----

Q1:- Retrive the total number of order placed

**Query:-** SELECT COUNT(order\_id) as `total\_order` FROM `orders`;

Q2:- Calculate the total revenue generates from the pizza sales

**Query:-** SELECT ROUND(SUM(order\_details.quantity \* pizzas.price)) AS  
total\_revenue  
FROM order\_details  
JOIN pizzas ON pizzas.pizza\_id = order\_details.pizza\_id;

Q3:- Identify the heighest prices pizza

**Query:-** 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

Q4:- Identify the most common pizza size ordered

**Query:-** 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;

Q5:- List the 5 most ordered pizza types along with their quantities

**Query:-** SELECT pizza\_types.name,SUM(order\_details.quantity) AS quantity  
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 quantity DESC LIMIT 5;

### -----**Intermediate-Question**-----

Q6:- Join the necessary tables to find the total quantity of each pizza category ordered

**Query:-** SELECT pizza\_types.category,  
SUM(order\_details.quantity) AS quantity  
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 quantity DESC;

Q7:- determine the distribution of orders by hour of day

**Query:-** SELECT HOUR(time) AS hour, COUNT(order\_id) as order\_count  
FROM orders  
GROUP BY hour;

Q8:- join relevant tables to find the category-wise distribution of pizzas

**Query:-** SELECT category , COUNT(name) FROM pizza\_types  
GROUP BY category

Q9:- Group the orders by date and calculate the Average of number of pizza ordered per day

**Query:-** SELECT AVG(quantity) 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\_quantity

Q10:- determine the top 3 most ordered pizza types based on revenue

**Query:-** SELECT 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

---

-----Below is all Query's output-----

Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Your SQL query has been executed successfully.

# Q1:- Retrive the total number of order placed:- `SELECT COUNT(order_id) as 'total_order' FROM 'orders'`

total_order
21350

Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 0 (1 total, Query took 0.4151 seconds.)

```
#Calculate the total revenue generates from the pizza sales
SELECT
ROUND(SUM(order_details.quantity * pizzas.price)) AS total_revenue
FROM order_details JOIN
pizzas ON pizzas.pizza_id = order_details.pizza_id
```

total_revenue
817860

Show query box

Showing rows 0 - 0 (1 total, Query took 0.1753 seconds.) [price: 35.95... - 35.95...]

```
#Identify the heighest prices 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
```

name	price
The Greek Pizza	35.95

Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Your SQL query has been executed successfully.

```
#Identify the most common pizza size ordered
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 LIMIT 1
```

size	order_count
L	18526

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 4 (5 total, Query took 0.7117 seconds.)

```
SELECT pizza_types.name, SUM(order_details.quantity) AS quantity 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 quantity DESC
LIMIT 5
```

name	quantity	1
The Classic Deluxe Pizza	2453	
The Barbecue Chicken Pizza	2432	
The Hawaiian Pizza	2422	
The Pepperoni Pizza	2418	
The Thai Chicken Pizza	2371	



Hide query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 3 (4 total, Query took 0.7765 seconds.)

```
SELECT pizza_types.category, SUM(order_details.quantity) AS quantity 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 quantity DESC
```

category	quantity	1
Classic	14888	
Supreme	11987	
Veggie	11649	
Chicken	11050	

Hide query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 14 (15 total, Query took 0.2015 seconds.)

```
SELECT HOUR(time) AS hour, COUNT(order_id) as order_count FROM orders GROUP BY hour
```

hour	order_count
9	1
10	8
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

Hide query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 3 (4 total, Query took 0.1707 seconds.)

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

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

Hide query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 2 (3 total, Query took 0.6103 seconds.)

```
#determine the top 3 most ordered pizza types based on revenue SELECT
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.name ORDER BY revenue DESC LIMIT
3
```

name	revenue	1
The Thai Chicken Pizza	43434.25	
The Barbecue Chicken Pizza	42768	
The California Chicken Pizza	41409.5	

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 3 (4 total, Query took 1.0200 seconds.)

```
#determine the top 3 most ordered pizza types based on revenue
SELECT
pizza_types.category, ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
ROUND(SUM(order_details.quantity * pizzas.price), 2) AS total_revenue FROM order_details JOIN
pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100, 2) 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 ORDER BY revenue DESC
```

category	revenue	1
Classic	26.91	
Supreme	25.46	
Chicken	23.96	
Veggie	23.68	