# SQL Questions and Queries

## 1. Analyze the Given SQL Tables

The given SQL database contains four tables: Customers, Orders, Products, and Order Items. Below is the structure and key relationships:  
  
- Customers: Contains customer details such as customer\_id, name, email, city, and country.  
- Orders: Stores order details with order\_id, customer\_id, order\_date, and total\_amount.  
- Products: Lists product information including product\_id, name, category, and price.  
- Order Items: Maps orders to products with order\_id, product\_id, and quantity.

## 2. SQL Query: "Which city has generated the highest total sales amount?"

Query:

SELECT c.city, SUM(o.total\_amount) AS total\_sales  
FROM Customers c  
JOIN Orders o ON c.customer\_id = o.customer\_id  
GROUP BY c.city  
ORDER BY total\_sales DESC  
LIMIT 1;

## Explanation:

- The query joins Customers and Orders tables on customer\_id.  
- It calculates total sales (SUM(o.total\_amount)) per city.  
- Groups results by city and orders them in descending order of total sales.  
- Uses LIMIT 1 to return only the city with the highest total sales.  
- This query helps identify which city contributed the most revenue based on customer orders.