# Day 4 – SQL Practice Questions

## 📊 Dataset: Products, Orders & Suppliers

This dataset includes three tables designed to expand on multi-table joins, filtering, and analytical functions.

### Products Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ProductID | ProductName | SupplierID | Category | Price |
| 1 | Notebook | 101 | Stationery | 150 |
| 2 | Monitor | 102 | Electronics | 12000 |
| 3 | Keyboard | 103 | Electronics | 2500 |
| 4 | Desk | 104 | Furniture | 6000 |
| 5 | Chair | 104 | Furniture | 3500 |

### Orders Table

|  |  |  |  |
| --- | --- | --- | --- |
| OrderID | ProductID | Quantity | OrderDate |
| 201 | 1 | 10 | 2022-09-01 |
| 202 | 2 | 3 | 2022-09-02 |
| 203 | 3 | 5 | 2022-09-03 |
| 204 | 4 | 2 | 2022-09-05 |
| 205 | 2 | 1 | 2022-09-06 |
| 206 | 5 | 4 | 2022-09-07 |

### Suppliers Table

|  |  |  |
| --- | --- | --- |
| SupplierID | SupplierName | City |
| 101 | FineStationery Co. | Chennai |
| 102 | ElectroMart | Delhi |
| 103 | KeyBoard Bros | Mumbai |
| 104 | FurniWorld | Bangalore |

## 📘 Practice Questions

1. List all products along with their supplier’s name and city.

2. Show the total quantity ordered per product.

3. Find the total sales amount for each category. (Quantity × Price)

4. Identify the supplier(s) who provide products that haven't been ordered.

5. Display the highest-priced product from each category.

6. List orders with total amount > 10,000. Show product and supplier info.

7. Show the number of products supplied by each supplier.

8. List all orders placed in September 2022 along with product category.

9. Which city supplies the most ordered product overall?

10. List each supplier with the total value of products they’ve supplied (across all orders).

## 🎯 Bonus Challenge

Write a query to rank categories by total sales using RANK() or DENSE\_RANK().