

## SQL Queries

1. Write a SQL query to display the top 5 cities with the highest number of orders in the Orders table. Include the country name and the total number of orders.
2. Write a SQL query to calculate the average unit price of products in each category in the Products table. Display the category name and the average unit price, sorted by average unit price in descending order.
3. Write a SQL query to display the top 10 customers with the highest total order amount in the Orders table. Include the customer name and the total order amount.
4. Write a SQL query to display the number of orders and the total order amount for each year in the Orders table. Include the year and the month.
5. Write a SQL query to display the top 5 suppliers with the highest number of products in the Products table. Include the supplier name and the total number of products.

### ##SQL QUERY 1##

```
SELECT orders.ShipCity, orders.ShipCountry, COUNT(orders.OrderID) AS OrdersTotal
FROM orders
GROUP BY orders.ShipCity, orders.ShipCountry
ORDER BY OrdersTotal DESC
LIMIT 5;
```

	ShipCity	ShipCountry	OrdersTotal
►	Miami	USA	4
	Boston	USA	4
	Chicago	USA	3
	Houston	USA	2
	Los Angeles	USA	2

### ##SQL QUERY 2##

```
SELECT categories.CategoryName, ROUND(AVG(products.UnitPrice),3) AS AverageUnitPrice
FROM products
JOIN categories ON products.CategoryID = categories.CategoryID
GROUP BY categories.CategoryName
ORDER BY AverageUnitPrice DESC;
```

	CategoryName	AverageUnitPrice
▶	Wine	19.99
	Food	14.49
	Coffee	13.49
	Beer	11.49
	Produce	7.99
	Tea	5.49
	Condiments	5.49
	Snacks	5.24
	Cookies	3.99
	Soft Drinks	3.99
	Seafood	3.99
	Dairy Products	3.74
	Chocolate	3.24
	Bakery	2.99
	Meat	1.49

### ##SQL QUERY 3##

```
SELECT customer.CompanyName, ROUND(SUM((orderdetails.UnitPrice * orderdetails.Quantity) * (1 - orderdetails.Discount)),3) AS TotalAmount
```

```
FROM orderdetails
```

```
JOIN orders ON orderdetails.OrderID = orders.OrderID
```

```
JOIN customer ON customer.CustomerID = orders.CustomerID
```

```
GROUP BY customer.CompanyName
```

```
ORDER BY TotalAmount DESC
```

```
LIMIT 10;
```

	CompanyName	TotalAmount
▶	Premium Products	186.83
	Superior Services	150.283
	Global Industries	125.234
	Dynamic Systems	111.533
	Innovative Solutions	107.405
	XYZ Corporation	104.555
	Elite Marketing	91.89
	Superior Enterprises	89.301
	Global Enterprises	80.821
	Acme Inc.	78.91

### ##SQL QUERY 4##

```
SELECT YEAR(orders.OrderDate) AS Year, MONTH(orders.OrderDate) AS Month,
```

```
    COUNT(orders.OrderID) AS OrdersNum,
```

```
    ROUND(SUM((orderdetails.UnitPrice * orderdetails.Quantity) * (1 - orderdetails.Discount)),3) AS TotalAmount
```

```
FROM orders
```

```
JOIN orderdetails ON orders.OrderID = orderdetails.OrderID
```

```
GROUP BY Year, Month
```

```
ORDER BY year, Month;
```

	Year	Month	OrdersNum	TotalAmount
▶	2023	5	28	665.47
	2023	6	14	469.059
	2023	7	6	205.168

### ##SQL QUERY 5##

```
SELECT suppliers.CompanyName, COUNT(products.ProductID) AS ProductsNumTotal
FROM suppliers
JOIN products ON suppliers.SupplierID = products.SupplierID
GROUP BY suppliers.CompanyName
ORDER BY ProductsNumTotal DESC
LIMIT 5;
```

	CompanyName	ProductsNumTotal
►	Dynamic Systems	4
	ABC Supplies	2
	XYZ Corp	2
	Global Industries	2
	Superior Enterprises	2