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Lab 1

**Q1.** Select the "CustomerName" and "City" columns from the "Customers" table.

**Screenshots:**

SQL Statement:

```
SELECT CustomerName, City FROM Customers;
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 91

CustomerName	City
Alfreds Futterkiste	Berlin
Ana Trujillo Emparedados y helados	México D.F.
Antonio Moreno Taquería	México D.F.
Around the Horn	London

**Explanation:**

SELECT tells the system I want to see specific data, in this case I want to see both the CustomerName and City columns from the Customers table.

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**Q2.** Select only the DISTINCT values from the "Country" column in the "Customers" table.

**Screenshots:**

The screenshot shows a web-based SQL interface. At the top, under the heading "SQL Statement:", the query `SELECT DISTINCT Country FROM Customers;` is entered. Below the query editor, there is a green button labeled "Run SQL »". Under the heading "Result:", it says "Number of Records: 21". Below this, a table displays the results with a single column named "Country". The table contains five rows with the values "Germany", "Mexico", "UK", "Sweden", and "France".

Country
Germany
Mexico
UK
Sweden
France

**Explanation:**

SELECT DISTINCT tells the system I want to see specific data without repeating it, in this case I want to see the distinct countries.

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**Q3.** List the product name of products whose price is less than 10. Return the results without duplicates.

**Screenshots:**

**SQL Statement:**

```
SELECT DISTINCT ProductName FROM Products  
WHERE Price < 10
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

**Result:**

Number of Records: 11

ProductName
Konbu
Teatime Chocolate Biscuits
Tunnbröd
Guaraná Fantástica
Geitost
Jack's New England Clam Chowder
Røgede sild

**Explanation:**

SELECT DISTINCT tells the system I want to see specific data without repeating it and WHERE allows me to specify certain attributes in the search. In this case, I want to see each product that costs less than 10.

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**Q4.** Select all fields from "Customers" where the country is "Germany" AND city must be "Berlin" OR "München" (use parenthesis to form complex expressions).

### Screenshots:

SQL Statement:

```
SELECT * FROM Customers
WHERE Country = "Germany"
AND (City = 'Berlin'
OR City = 'München')
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 2

CustomerID	CustomerName	ContactName	Address	City
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin
25	Frankenversand	Peter Franken	Berliner Platz 43	München

### Explanation:

SELECT \* FROM Specifies that I want data from the customers table. The WHERE syntax specifies that the country has to be Germany and the city has to be Berlin or Munchen.

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**Q5.** Select all customers from the "Customers" table, sorted ascending by the "Country" and descending by the "CustomerName" column.

### Screenshots:

SQL Statement:

```
SELECT * FROM Customers
ORDER BY Country ASC, CustomerName DESC
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL >

Result:

Number of Records: 91

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
64	Rancho grande	Sergio Gutiérrez	Av. del Libertador 900	Buenos Aires	1010	Argentina
54	Océano Atlántico Ltda.	Yvonne Moncada	Ing. Gustavo Moncada 8585 Piso 20-A	Buenos Aires	1010	Argentina
12	Cactus Comidas para llevar	Patricio Simpson	Cerrito 333	Buenos Aires	1010	Argentina
59	Piccolo und mehr	Georg Pipp	Geisweg 14	Salzburg	5020	Austria

### Explanation:

SELECT \* FROM Specifies that I want data from the customers table. The ORDER BY Syntax specifies that I want to order it by ascending country, and descending Customer Name/