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Lab 1

Q1. Insert the missing statement to get all the columns from the Customers table.

Screenshots:

SQL Statement:

```
SELECT * FROM Customers;
```

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
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	México D.F.	05021	Mexico
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	05023	Mexico

Explanation:

In order to select all of the columns from the customer table, I used SELECT to find the data, and * FROM Customers to specify I wanted all data from the Customers table.

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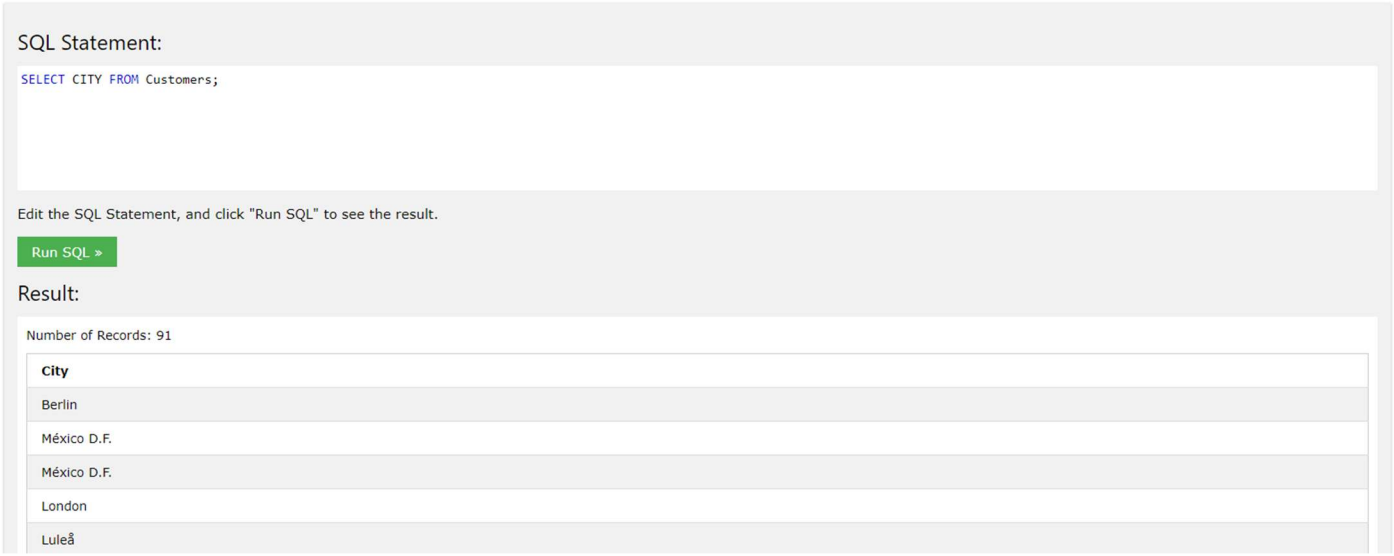
Q2. Write a statement that will select the City column from the Customers table.

Screenshots:



Explanation:

I used SELECT to specify I wanted to find data, then City to specify that I wanted to find data in the city column, then FROM Customers to specify that I wanted to find those in the Customers table.

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Q3. Select all the different values from the Country column in the Customers table.

Screenshots:

Explanation:

I used SELECT DISTINCT Country to specify that I wanted only countries that do not repeat, and FROM Customers to specify what table I wanted that data from.

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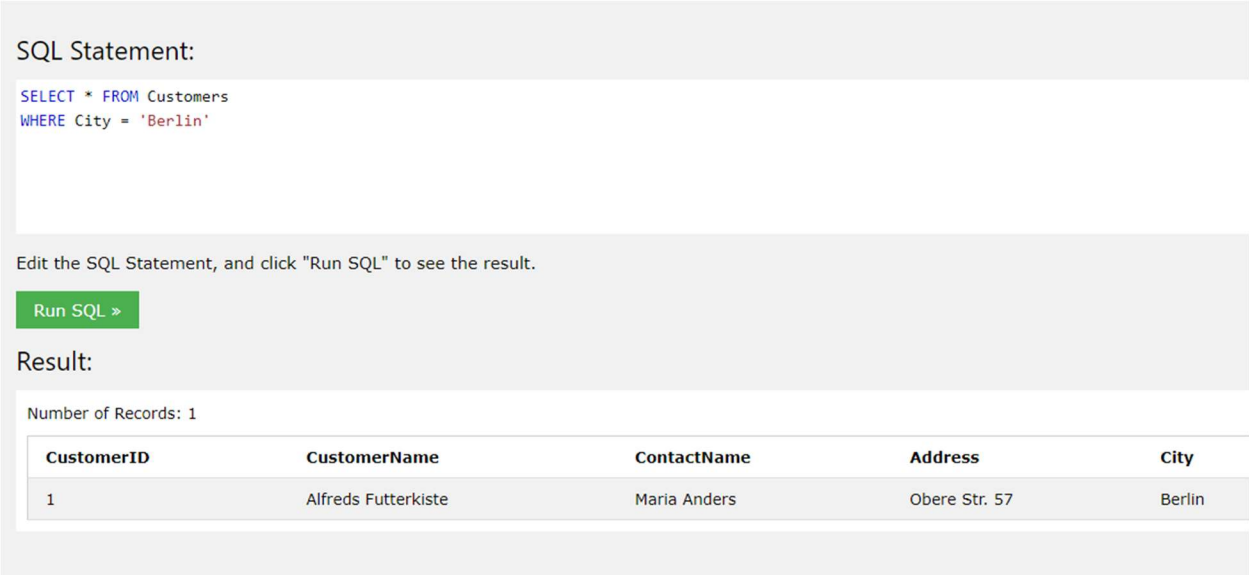
Q4. Select all records where the City column has the value "Berlin".

Screenshots:



Explanation:

I used SELECT * FROM Customers to specify what table I wanted the data from, then I used WHERE City = ‘Berlin’ to find entries that contain Berlin in the city Column.

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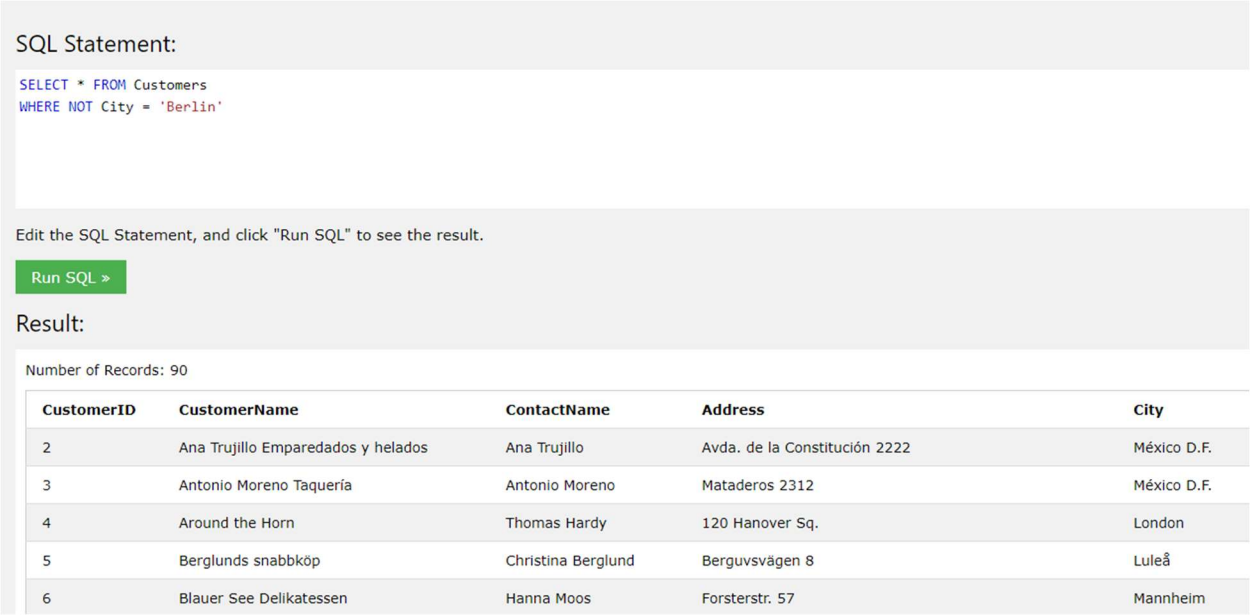
Q5. Use the NOT keyword to select all records where City is NOT "Berlin".

Screenshots:



SQL Statement:

```
SELECT * FROM Customers
WHERE NOT City = 'Berlin'
```

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

Run SQL »

Result:

Number of Records: 90

CustomerID	CustomerName	ContactName	Address	City
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	México D.F.
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå
6	Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim

Explanation:

I used the same syntax as the previous exercise, but added the keyword “NOT” to specify that I wanted every entry except those that contain Berlin.

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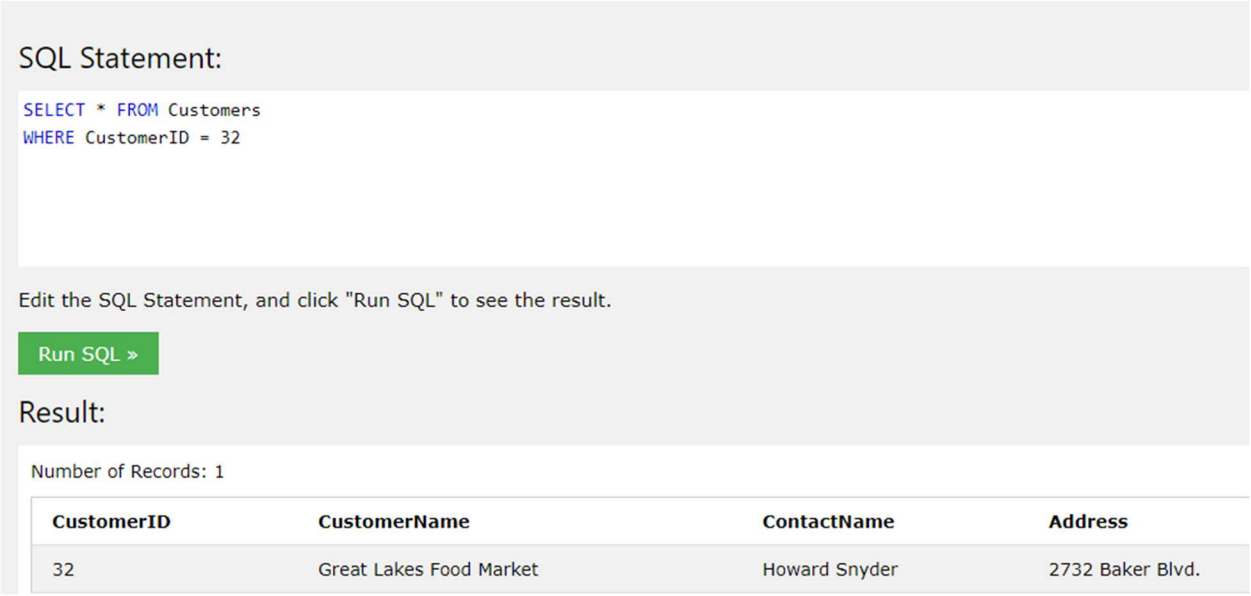
Q6. Select all records where the CustomerID column has the value 32.

Screenshots:



Explanation:

I used the same SELECT syntax as before, but for the WHERE syntax, I added “Customer ID = 32” To find the entry of the customer with that number.

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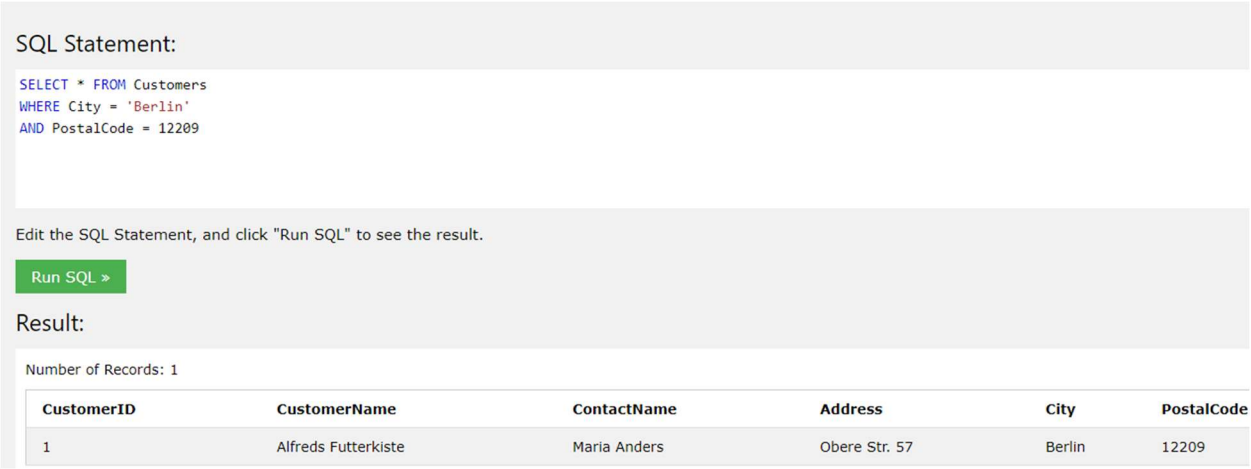
Q7. Select all records where the City column has the value 'Berlin' and the PostalCode column has the value 12209.

Screenshots:



Explanation:

I used the same SELECT and WHERE syntax to define that I wanted data from Berlin, and added the AND syntax to specify that I also wanted the postal code to be 12209.

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Q8. Select all records where the City column has the value 'Berlin' or 'London'.

Screenshots:

SQL Statement:

```
SELECT * FROM Customers
WHERE City = 'Berlin'
OR City = 'London'
```

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

Run SQL »

Result:

Number of Records: 7

CustomerID	CustomerName	ContactName	Address	City
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London
11	B's Beverages	Victoria Ashworth	Fauntleroy Circus	London
16	Consolidated Holdings	Elizabeth Brown	Berkeley Gardens 12 Brewery	London
19	Eastern Connection	Ann Devon	35 King George	London
53	North/South	Simon Crowther	South House 300 Queensbridge	London
72	Seven Seas Imports	Hari Kumar	90 Wadhurst Rd.	London

Explanation:

I used the same SELECT and WHERE syntax to define that I wanted data from Berlin, and added the OR syntax to specify that I also wanted data that contains London in the City column.

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Q9. Select all records from the Customers table, sort the result alphabetically by the column City.

Screenshots:

SQL Statement:

```
SELECT * FROM Customers
ORDER BY City
```

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

Run SQL »

Result:

Number of Records: 91

CustomerID	CustomerName	ContactName	Address	City
17	Drachenblut Delikatessend	Sven Ottlieb	Walserweg 21	Aachen
65	Rattlesnake Canyon Grocery	Paula Wilson	2817 Milton Dr.	Albuquerque
55	Old World Delicatessen	Rene Phillips	2743 Bering St.	Anchorage
29	Galería del gastrónomo	Eduardo Saavedra	Rambla de Cataluña, 23	Barcelona
46	LILA-Supermercado	Carlos González	Carrera 52 con Ave. Bolívar #65-98 Llano Largo	Barquisimeto
49	Magazzini Alimentari Riuniti	Giovanni Rovelli	Via Ludovico il Moro 22	Bergamo
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin

Explanation:

I used the same SELECT syntax and added the ORDER BY City syntax so the database would show me the entries in alphabetical order by city.

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Q10. Select all records from the Customers table, sort the result reversed alphabetically by the column City.

Screenshots:

SQL Statement:

```
SELECT * FROM Customers
ORDER BY City 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
83	Vaffeljernet	Palle Ibsen	Smagsløget 45	Århus
43	Lazy K Kountry Store	John Steel	12 Orchestra Terrace	Walla Walla
91	Wolski	Zbyszek	ul. Filtrowa 68	Walla
40	La corne d'abondance	Daniel Tonini	67, avenue de l'Europe	Versailles
42	Laughing Bacchus Wine Cellars	Yoshi Tannamuri	1900 Oak St.	Vancouver
10	Bottom-Dollar Marketse	Elizabeth Lincoln	23 Tsawassen Blvd.	Tsawassen
41	La maison d'Asie	Annette Roulet	1 rue Alsace-Lorraine	Toulouse
27	Franchi S.p.A.	Paolo Accorti	Via Monte Bianco 34	Torino

Explanation:

I used the same SELECT syntax and added the ORDER BY City DESC syntax so the database would show me the entries in reverse alphabetical order by city.

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Q11. Select all records from the Customers table, sort the result alphabetically, first by the column Country, then, by the column City.

Screenshots:

SQL Statement:

```
SELECT * FROM Customers
ORDER BY Country, City
```

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
12	Cactus Comidas para llevar	Patricio Simpson	Cerrito 333	Buenos Aires	1010	Argentina
54	Océano Atlántico Ltda.	Yvonne Moncada	Ing. Gustavo Moncada 8585 Piso 20-A	Buenos Aires	1010	Argentina
64	Rancho grande	Sergio Gutiérrez	Av. del Libertador 900	Buenos Aires	1010	Argentina
20	Ernst Handel	Roland Mendel	Kirchgasse 6	Graz	8010	Austria

Explanation:

I used the same SELECT syntax and added the ORDER BY Country, City to organize the entries first by countries, then by cities within those countries.