

L07 SQL

IST 110

Part I: SELECT statement

1. List the entire contents of the Customers table. [SELECT *]

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
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12205
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	México D.F.	05121
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	05357
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	W1A 0AE
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-971 80
6	Bonaparte	Maria Serrano	Emancipación 575	Madrid	28014
7	Buenos Aires	Chloe Long	Sierrita 15	Buenos Aires	1013
8	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
9	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
10	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
11	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
12	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
13	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
14	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
15	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
16	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
17	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
18	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
19	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
20	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
21	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
22	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
23	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
24	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
25	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
26	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
27	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
28	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
29	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
30	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
31	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
32	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
33	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
34	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
35	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
36	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
37	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
38	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
39	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
40	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
41	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
42	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
43	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
44	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
45	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
46	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
47	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
48	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
49	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
50	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
51	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
52	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
53	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
54	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
55	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
56	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
57	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
58	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
59	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
60	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
61	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
62	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
63	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
64	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
65	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
66	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
67	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
68	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
69	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
70	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
71	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
72	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
73	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
74	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
75	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
76	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
77	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
78	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
79	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
80	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
81	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
82	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
83	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
84	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
85	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
86	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
87	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
88	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
89	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
90	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018
91	Cardo	Yvonne Pardo	1010 10th Ave	New York	10018

2. List the CustomerName of all customers where city = "Berlin". [SELECT WHERE]

SQL Statement:

```
SELECT CustomerName FROM Customers
WHERE City = 'Berlin';
```

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

Run SQL »

Result:

Number of Records: 1

CustomerName

Alfreds Futterkiste

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Your Database:

Tablename

Customers

Records

91

3. List the CustomerName of all customers in the USA in alphabetical order by CustomerName. [SELECT ORDER BY]

SQL Statement:

```
SELECT CustomerName FROM Customers
WHERE Country = 'USA'
ORDER BY CustomerName ASC;
```

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

Run SQL »

Result:

Number of Records: 13

CustomerName
Great Lakes Food Market
Hungry Coyote Import Store
Lazy K Kountry Store
Let's Stop N Shop
Lonesome Pine Restaurant
Old World Delicatessen
Rattlesnake Canyon Grocery
Save-a-lot Markets

4. List all of the cities in the Customers table. Now revise your SQL to remove duplicate cities. [SELECT DISTINCT

SQL Statement:

```
SELECT DISTINCT City FROM Customers;
```

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

Run SQL »

Result:

Number of Records: 69

City
Berlin
México D.F.
London
Luleå
Mannheim
Strasbourg
Madrid
Marseille

Part II: INSERT statement

1. Insert a new record in the Categories table. The new record should contain the following values ("Frozen Foods", "French Fries, TV Dinners, Eggos"). [INSERT INTO]

SQL Statement:

Get


```
INSERT INTO Categories (CategoryName)
VALUES ('Frozen Foods'),
       ('French Fries'),
       ('TV Dinners'),
       ('Eggos');
```

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

[Run SQL »](#)

Result:

You have made changes to the database. Rows affected: 4

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Your Database:

Tablename	Records
Customers	91
Categories	12
Employees	10
OrderDetails	518
Orders	196
Products	77

7	Produce	Dried fruit and bean cu
8	Seafood	Seaweed and fish
13	Frozen Foods	<i>null</i>
14	French Fries	<i>null</i>
15	TV Dinners	<i>null</i>
16	Eggos	<i>null</i>

Part III: DELETE statement

1. Delete the record that you just added to the Categories table. [DELETE]

SQL Statement:

```
DELETE FROM Categories WHERE  
  CategoryName = 'Frozen Foods' OR  
  CategoryName = 'French Fries' OR  
  CategoryName = 'TV Dinners' OR  
  CategoryName = 'Eggos';
```

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

Run SQL »

Result:

You have made changes to the database. Rows affected: 4

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Your Database:

Tablename	Records
Customers	91
Categories	8
Employees	10
OrderDetails	518
Orders	196
Products	77

SQL Statement:

```
SELECT * FROM Categories;
```

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

Run SQL »

Result:

Number of Records: 8

CategoryID	CategoryName	Description
1	Beverages	Soft drinks, coffees, teas, beers, and ales
2	Condiments	Sweet and savory sauces, relishes, spreads, and se
3	Confections	Desserts, candies, and sweet breads
4	Dairy Products	Cheeses
5	Grains/Cereals	Breads, crackers, pasta, and cereal
6	Meat/Poultry	Prepared meats
7	Produce	Dried fruit and bean curd
8	Seafood	Seaweed and fish