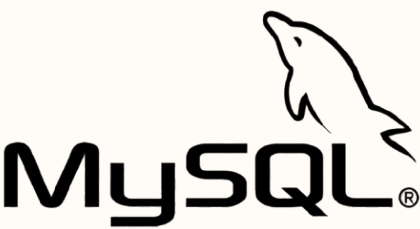


EJERCICIOS SIMULADOR



SELECT

```
/*SELECT Columns Example*/
/*Jimmy Barrientos*/
SELECT CustomerName, City, Country FROM Customers;
```

Result:		
Number of Records: 91		
CustomerName	City	Country
Alfreds Futterkiste	Berlin	Germany
Ana Trujillo Emparedados y helados	México D.F.	Mexico
Antonio Moreno Taquería	México D.F.	Mexico
Around the Horn	London	UK

```
/*SELECT * Example Example*/
/*Jimmy Barrientos*/
SELECT * FROM Customers;
```

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
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden

```
/*SELECT Example Without DISTINCT*/
/*Jimmy Barrientos*/
SELECT Country FROM Customers;
```

Result:	
Number of Records: 91	
Country	
Germany	
Mexico	
Mexico	
UK	
Sweden	

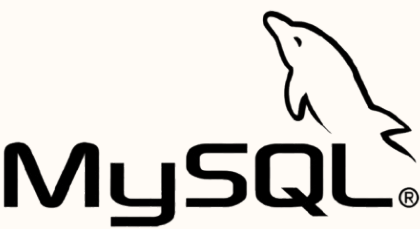
```
/*Jimmy Barrientos/
/*SELECT DISTINCT Examples*/
SELECT DISTINCT Country FROM Customers;
```

Result:	
Number of Records: 21	
Country	
Germany	
Mexico	
UK	
Sweden	
France	

```
/*Jimmy Barrientos/
/*SELECT DISTINCT Examples*/
SELECT COUNT(DISTINCT Country) FROM Customers;
```

Result:	
Number of Records: 1	
COUNT(DISTINCT Country)	
21	

EJERCICIOS SIMULADOR



WHERE

```
/**Jimmy Barrientos/  
/*WHERE Clause Example*/  
SELECT * FROM Customers  
WHERE Country = 'Mexico';
```

Result:						
Number of Records: 5						
CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
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
13	Centro comercial Moctezuma	Francisco Chang	Sierras de Granada 9993	México D.F.	05022	Mexico
58	Pericles Comidas clásicas	Guillermo Fernández	Calle Dr. Jorge Cash 321	México D.F.	05033	Mexico
80	Tortuga Restaurante	Miguel Angel Paolino	Avda. Azteca 123	México D.F.	05033	Mexico

```
/**Jimmy Barrientos/  
/*Text Fields vs. Numeric Fields*/  
SELECT * FROM Customers  
WHERE CustomerID = 1;
```

Result:						
Number of Records: 1						
CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany

```
/**Jimmy Barrientos/  
/*Text Fields vs. Numeric Fields*/  
SELECT * FROM Products  
WHERE Price = 18;
```

Number of Records: 4					
ProductID	ProductName	SupplierID	CategoryID	Unit	Price
1	Chais	1	1	10 boxes x 20 bags	18.00
35	Steeleye Stout	16	1	24 - 12 oz bottles	18.00
39	Chartreuse verte	18	1	750 cc per bottle	18.00
76	Lakkalikööri	23	1	500 ml	18.00

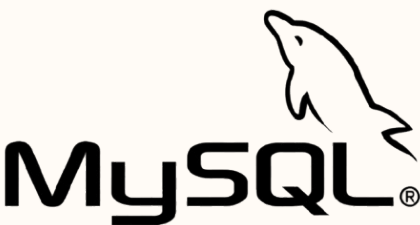
```
/**Jimmy Barrientos/  
/*Text Fields vs. Numeric Fields*/  
SELECT * FROM Products  
WHERE Price >= 30;
```

ProductID	ProductName	SupplierID	CategoryID	Unit	Price
7	Uncle Bob's Organic Dried Pears	3	7	12 - 1 lb pkgs.	30.00
8	Northwoods Cranberry Sauce	3	2	12 - 12 oz jars	40.00
9	Mishi Kobe Niku	4	6	18 - 500 g pkgs.	97.00
10	Ikura	4	8	12 - 200 ml jars	31.00
12	Queso Manchego La Pastora	5	4	10 - 500 g pkgs.	38.00
17	Alice Mutton	7	6	20 - 1 kg tins	39.00

```
/**Jimmy Barrientos/  
/*Text Fields vs. Numeric Fields*/  
SELECT * FROM Customers  
WHERE City LIKE 's%';
```

Number of Records: 12						
CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
7	Blondel père et fils	Frédérique Citeaux	24, place Kléber	Strasbourg	67000	France
15	Comércio Mineiro	Pedro Afonso	Av. dos Lusíadas, 23	São Paulo	05432-043	Brazil
21	Familia Arquibaldo	Aria Cruz	Rua Orós, 92	São Paulo	05442-030	Brazil
30	Godos Cocina Típica	José Pedro Freyre	C/ Romero, 33	Sevilla	41101	Spain
35	HILARIÓN-Abastos	Carlos Hernández	Carrera 22 con Ave. Carlos Soublette #8-35	San Cristóbal	5022	Venezuela

EJERCICIOS SIMULADOR



AND, OR, NOT

```
/**Jimmy Barrientos/  
/*OR EXAMPLE*/  
SELECT * FROM Customers  
WHERE City = 'Berlin' OR City = 'Stuttgart';
```

Number of Records: 2

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
86	Die Wandernde Kuh	Rita Müller	Adenauerallee 900	Stuttgart	70563	Germany

```
/**Jimmy Barrientos/  
/*AND EXAMPLE*/  
SELECT * FROM Customers  
WHERE Country = 'Germany' AND City = 'Stuttgart';
```

Number of Records: 1

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
86	Die Wandernde Kuh	Rita Müller	Adenauerallee 900	Stuttgart	70563	Germany

```
/**Jimmy Barrientos/  
/*NOT EXAMPLE*/  
SELECT * FROM Customers  
WHERE NOT Country = 'Germany';
```

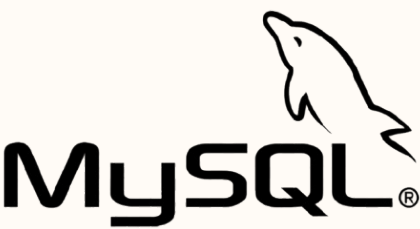
Number of Records: 60

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
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
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden
7	Blondel père et fils	Frédérique Citeaux	24, place Kléber	Strasbourg	67000	France

```
Jimmy Barrientos/  
NOT,OR,AND EXAMPLE*/  
SELECT * FROM Customers  
WHERE Country = 'Germany' AND (City = 'Berlin' OR City = 'Stuttgart') AND NOT CustomerID = '1'
```

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
86	Die Wandernde Kuh	Rita Müller	Adenauerallee 900	Stuttgart	70563	Germany

EJERCICIOS SIMULADOR



ORDER BY

```
/**Jimmy Barrientos/  
/*ORDER BY Example*/  
SELECT * FROM Customers  
ORDER BY Country;
```

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 Plso 20-A	Buenos Aires	1010	Argentina
64	Rancho grande	Sergio Gutiérrez	Av. del Libertador 900	Buenos Aires	1010	Argentina

```
/**Jimmy Barrientos/  
/*ORDER BY DESC Example*/  
SELECT * FROM Customers  
ORDER BY Country DESC;
```

35	HILARIÓN-Abastos	Carlos Hernández	Carrera 22 con Ave. Carlos Soublette #8-35	San Cristóbal	5022	Venezuela
46	LILA-Supermercado	Carlos González	Carrera 52 con Ave. Bolívar #65-98 Llano Largo	Barquisimeto	3508	Venezuela
47	LINO-Delicateses	Felipe Izquierdo	Ave. 5 de Mayo Porlamar	I. de Margarita	4980	Venezuela
32	Great Lakes Food Market	Howard Snyder	2732 Baker Blvd.	Eugene	97403	USA

```
/**Jimmy Barrientos/  
/*ORDER BY Several Columns Example*/  
SELECT * FROM Customers  
ORDER BY Country, CustomerName;
```

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
59	Piccolo und mehr	Georg Pipp	Geislweg 14	Salzburg	5020	Austria
50	Maison Dewey	Catherine Dewey	Rue Joseph-Bens 532	Bruxelles	B-1180	Belgium

INSERT INTO

Example

```
INSERT INTO Customers (CustomerName, ContactName, Address, City, PostalCode, Country)  
VALUES ('Cardinal', 'Tom B. Erichsen', 'Skagen 21', 'Stavanger', '4006', 'Norway');
```

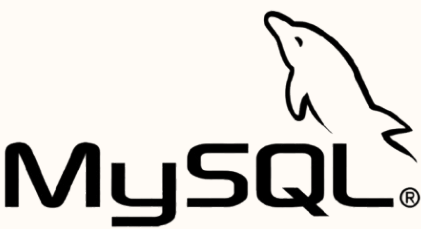
CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
89	White Clover Markets	Karl Jablonski	305 - 14th Ave. S. Suite 3B	Seattle	98128	USA
90	Wilman Kala	Matti Karttunen	Keskuskatu 45	Helsinki	21240	Finland
91	Wolski	Zbyszek	ul. Filtrowa 68	Walla	01-012	Poland
92	Cardinal	Tom B. Erichsen	Skagen 21	Stavanger	4006	Norway

Example

```
INSERT INTO Customers (CustomerName, City, Country)  
VALUES ('Cardinal', 'Stavanger', 'Norway');
```

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
89	White Clover Markets	Karl Jablonski	305 - 14th Ave. S. Suite 3B	Seattle	98128	USA
90	Wilman Kala	Matti Karttunen	Keskuskatu 45	Helsinki	21240	Finland

EJERCICIOS SIMULADOR



ORDER BY

```
/**Jimmy Barrientos/  
/*ORDER BY Example*/  
SELECT * FROM Customers  
ORDER BY Country;
```

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 Plso 20-A	Buenos Aires	1010	Argentina
64	Rancho grande	Sergio Gutiérrez	Av. del Libertador 900	Buenos Aires	1010	Argentina

```
/**Jimmy Barrientos/  
/*ORDER BY DESC Example*/  
SELECT * FROM Customers  
ORDER BY Country DESC;
```

35	HILARIÓN-Abastos	Carlos Hernández	Carrera 22 con Ave. Carlos Soublette #8-35	San Cristóbal	5022	Venezuela
46	LILA-Supermercado	Carlos González	Carrera 52 con Ave. Bolívar #65-98 Llano Largo	Barquisimeto	3508	Venezuela
47	LINO-Delicateses	Felipe Izquierdo	Ave. 5 de Mayo Porlamar	I. de Margarita	4980	Venezuela
32	Great Lakes Food Market	Howard Snyder	2732 Baker Blvd.	Eugene	97403	USA

```
/**Jimmy Barrientos/  
/*ORDER BY Several Columns Example*/  
SELECT * FROM Customers  
ORDER BY Country, CustomerName;
```

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
59	Piccolo und mehr	Georg Pipps	Geislweg 14	Salzburg	5020	Austria
50	Maison Dewey	Catherine Dewey	Rue Joseph-Bens 532	Bruxelles	B-1180	Belgium

INSERT INTO

Example

```
INSERT INTO Customers (CustomerName, ContactName, Address, City, PostalCode, Country)  
VALUES ('Cardinal', 'Tom B. Erichsen', 'Skagen 21', 'Stavanger', '4006', 'Norway');
```

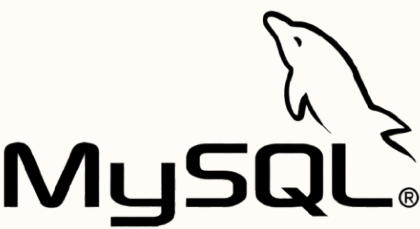
CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
89	White Clover Markets	Karl Jablonski	305 - 14th Ave. S. Suite 3B	Seattle	98128	USA
90	Wilman Kala	Matti Karttunen	Keskuskatu 45	Helsinki	21240	Finland
91	Wolski	Zbyszek	ul. Filtrowa 68	Walla	01-012	Poland
92	Cardinal	Tom B. Erichsen	Skagen 21	Stavanger	4006	Norway

Example

```
INSERT INTO Customers (CustomerName, City, Country)  
VALUES ('Cardinal', 'Stavanger', 'Norway');
```

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
89	White Clover Markets	Karl Jablonski	305 - 14th Ave. S. Suite 3B	Seattle	98128	USA
90	Wilman Kala	Matti Karttunen	Keskuskatu 45	Helsinki	21240	Finland

EJERCICIOS SIMULADOR



NULL VALUES

```
/**Jimmy Barrientos/  
/*The IS NULL Operator Example*/  
SELECT CustomerName, ContactName, Address  
FROM Customers  
WHERE Address IS NULL;
```

Result:		
Number of Records: 0		
CustomerName	ContactName	Address

```
/**Jimmy Barrientos/  
/*The IS NOT NULL Operator Example*/  
SELECT CustomerName, ContactName, Address  
FROM Customers  
WHERE Address IS NOT NULL;
```

CustomerName	ContactName	Address
Alfreds Futterkiste	Maria Anders	Obere Str. 57
Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222
Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312
Around the Horn	Thomas Hardy	120 Hanover Sq.

UPDATE

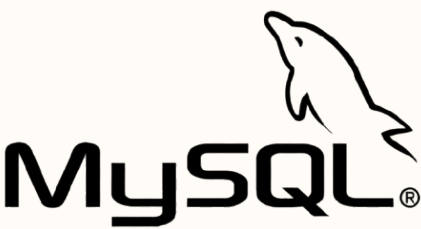
```
UPDATE Customers  
SET ContactName = 'Alfred Schmidt', City = 'Frankfurt'  
WHERE CustomerID = 1;
```

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Alfred Schmidt	Obere Str. 57	Frankfurt	12209	Germany

```
UPDATE Customers  
SET PostalCode = 00000  
WHERE Country = 'Mexico';
```

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Alfred Schmidt	Obere Str. 57	Frankfurt	12209	Germany
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	México D.F.	00000	Mexico
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	00000	Mexico

EJERCICIOS SIMULADOR



DELETE

```
DELETE FROM Customers WHERE CustomerName='Alfreds Futterkiste';
```

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
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
4	Around the Horn	Thomas Hardy	120 Hanover Sq	London	WA1 1DP	UK

ALIASES

```
/**Jimmy Barrientos/  
/* aliases Example*/  
SELECT CustomerID AS ID, CustomerName AS Customer  
FROM Customers;
```

ID	Customer
1	Alfreds Futterkiste
2	Ana Trujillo Emparedados y helados
3	Antonio Moreno Taquería
4	Around the Horn

```
/**Jimmy Barrientos/  
/* aliases Example*/  
SELECT CustomerName AS Customer, ContactName AS "Contact Person"  
FROM Customers;
```

Number of Records: 91

Customer	Contact Person
Alfreds Futterkiste	Maria Anders
Ana Trujillo Emparedados y helados	Ana Trujillo
Antonio Moreno Taquería	Antonio Moreno
Around the Horn	Thomas Hardy

```
/**Jimmy Barrientos/  
/* alias for tables Example*/  
SELECT o.OrderID, o.OrderDate, c.CustomerName  
FROM Customers AS c, Orders AS o  
WHERE c.CustomerName='Around the Horn' AND c.CustomerID=o.CustomerID;
```

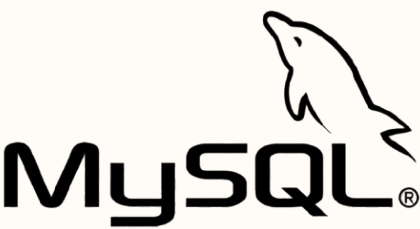
Number of Records: 13

OrderID	OrderDate	CustomerName
10355	1996-11-15	Around the Horn
10383	1996-12-16	Around the Horn
10453	1997-02-21	Around the Horn

```
/**Jimmy Barrientos/  
/* alias for tables Example*/  
SELECT Orders.OrderID, Orders.OrderDate, Customers.CustomerName  
FROM Customers, Orders  
WHERE Customers.CustomerName='Around the Horn' AND Customers.CustomerID=Orders.CustomerID;
```

10558	1997-06-04	Around the Horn
10707	1997-10-16	Around the Horn
10741	1997-11-14	Around the Horn
10743	1997-11-17	Around the Horn
10768	1997-12-08	Around the Horn

EJERCICIOS SIMULADOR



GROUP BY

```
/**Jimmy Barrientos/  
/* Group By Example*/  
SELECT COUNT(CustomerID), Country  
FROM Customers  
GROUP BY Country;
```

COUNT(CustomerID)	Country
3	Argentina
2	Austria
2	Belgium

```
/**Jimmy Barrientos/  
/* Group By Example*/  
SELECT COUNT(CustomerID), Country  
FROM Customers  
GROUP BY Country  
ORDER BY COUNT(CustomerID) DESC;
```

COUNT(CustomerID)	Country
13	USA
11	Germany
11	France

```
/**Jimmy Barrientos/  
/* GROUP BY With JOIN SELECT*/  
  
SELECT Shippers.ShipperName, COUNT(Orders.OrderID) AS NumberOfOrders FROM Orders  
LEFT JOIN Shippers ON Orders.ShipperID = Shippers.ShipperID  
GROUP BY ShipperName;
```

ShipperName	NumberOfOrders
Federal Shipping	255
Speedy Express	249
United Package	326

INSERT SELECT

Example

Get

```
INSERT INTO Customers (CustomerName, City, Country)  
SELECT SupplierName, City, Country FROM Suppliers;
```

The following SQL statement copies "Suppliers" into "Customers" (fill all columns):

Example

```
INSERT INTO Customers (CustomerName, ContactName, Address, City, PostalCode, Country)  
SELECT SupplierName, ContactName, Address, City, PostalCode, Country FROM Suppliers;
```

The following SQL statement copies only the German suppliers into "Customers":