

Benliro, Ervie A.

ICT 11 – C

Computer Programming – SQL

Learning Activity 3: WHERE, AND, ORDER BY & OR

SQL Statement:

```
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

Text Fields vs Numeric Fields

SQL Statement:

```
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

Operator Clause

SQL Statement:

```
SELECT * FROM Customers  
WHERE CustomerID > 80;
```

Result:

Number of Records: 11

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
81	Tradição Hipermercados	Anabela Domingues	Av. Inês de Castro, 414	São Paulo	05634-030	Brazil
82	Trail's Head Gourmet Provisioners	Helvetius Nagy	722 DaVinci Blvd.	Kirkland	98034	USA
83	Vaffeljernet	Palle Ibsen	Smagsløget 45	Århus	8200	Denmark
84	Victuailles en stock	Mary Saveley	2, rue du Commerce	Lyon	69004	France
85	Vins et alcools Chevalier	Paul Henriot	59 rue de l'Abbaye	Reims	51100	France
86	Die Wandernde Kuh	Rita Müller	Adenauerallee 900	Stuttgart	70563	Germany
87	Wartian Herkku	Pirkko Koskitalo	Torikatu 38	Oulu	90110	Finland

ORDER BY

SQL Statement:

```
SELECT * FROM Products  
ORDER BY Price;
```

Result:

Number of Records: 77

ProductID	ProductName	SupplierID	CategoryID	Unit	Price
33	Geitost	15	4	500 g	2.5
24	Guaraná Fantástica	10	1	12 - 355 ml cans	4.5
13	Konbu	6	8	2 kg box	6
52	Filo Mix	24	5	16 - 2 kg boxes	7
54	Tourtière	25	6	16 pies	7.45
75	Rhönbräu Klosterbier	12	1	24 - 0.5 l bottles	7.75
23	Tunnbröd	9	5	12 - 250 g pkgs.	9
19	Teatime Chocolate Biscuits	8	3	10 boxes x 12 pieces	9.2

DESC

SQL Statement:

```
SELECT * FROM Products
ORDER BY Price DESC;
```

Result:

Number of Records: 77

ProductID	ProductName	SupplierID	CategoryID	Unit	Price
38	Côte de Blaye	18	1	12 - 75 cl bottles	263.5
29	Thüringer Rostbratwurst	12	6	50 bags x 30 sausgs.	123.79
9	Mishi Kobe Niku	4	6	18 - 500 g pkgs.	97
20	Sir Rodney's Marmalade	8	3	30 gift boxes	81
18	Carnarvon Tigers	7	8	16 kg pkg.	62.5
59	Raclette Courdavault	28	4	5 kg pkg.	55
51	Manjimup Dried Apples	24	7	50 - 300 g pkgs.	53
62	Tarte au sucre	29	3	48 pies	49.3

Order Alphabetically

SQL Statement:

```
SELECT * FROM Products  
ORDER BY ProductName;
```

Result:

Number of Records: 77

ProductID	ProductName	SupplierID	CategoryID	Unit	Price
17	Alice Mutton	7	6	20 - 1 kg tins	39
3	Aniseed Syrup	1	2	12 - 550 ml bottles	10
40	Boston Crab Meat	19	8	24 - 4 oz tins	18.4
60	Camembert Pierrot	28	4	15 - 300 g rounds	34
18	Carnarvon Tigers	7	8	16 kg pkg.	62.5
1	Chais	1	1	10 boxes x 20 bags	18
2	Chang	1	1	24 - 12 oz bottles	19
39	Chartreuse verte	18	1	750 cc per bottle	18

Alphabetically DESC

SQL Statement:

```
SELECT * FROM Products  
ORDER BY ProductName DESC;
```

Result:

Number of Records: 77

ProductID	ProductName	SupplierID	CategoryID	Unit	Price
47	Zaanse koeken	22	3	10 - 4 oz boxes	9.5
64	Wimmers gute Semmelknödel	12	5	20 bags x 4 pieces	33.25
63	Vegie-spread	7	2	15 - 625 g jars	43.9
50	Valkoinen suklaa	23	3	12 - 100 g bars	16.25
7	Uncle Bob's Organic Dried Pears	3	7	12 - 1 lb pkgs.	30
23	Tunnbröd	9	5	12 - 250 g pkgs.	9
54	Tourtière	25	6	16 pies	7.45
14	Tofu	6	7	40 - 100 g pkgs.	23.25

ORDER BY Several Columns

SQL Statement:

```
SELECT * FROM Customers  
ORDER BY Country, CustomerName;
```

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
59	Piccolo und mehr	Georg Pipps	Geislweg 14	Salzburg	5020	Austria
50	Maison Dewey	Catherine Dewey	Rue Joseph-Bens 532	Bruxelles	B-1180	Belgium
76	Suprêmes délices	Pascale Cartrain	Boulevard Tirou, 255	Charleroi	B-6000	Belgium

Using Both ASC and DESC

SQL Statement:

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

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 Pipps	Geislweg 14	Salzburg	5020	Austria
20	Ernst Handel	Roland Mendel	Kirchgasse 6	Graz	8010	Austria
76	Suprêmes délices	Pascale Cartrain	Boulevard Tirou, 255	Charleroi	B-6000	Belgium
50	Maison Dewey	Catherine Dewey	Rue Joseph-Bens 532	Bruxelles	B-1180	Belgium

SQL AND

SQL Statement:

```
SELECT * FROM Customers
WHERE Country = 'Spain' AND CustomerName LIKE 'G%';
```

Result:

Number of Records: 2

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
29	Galería del gastrónomo	Eduardo Saavedra	Rambla de Cataluña, 23	Barcelona	08022	Spain
30	Godos Cocina Típica	José Pedro Freyre	C/ Romero, 33	Sevilla	41101	Spain

SQL Statement:

```
SELECT * FROM Customers
WHERE Country = 'Germany'
AND City = 'Berlin'
AND PostalCode > '12000';
```

Result:

Number of Records: 1

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany

Combining AND and OR

SQL Statement:

```
SELECT * FROM Customers
WHERE Country = 'Spain'
AND (CustomerName LIKE 'G%' OR CustomerName LIKE 'R%');
```

Result:

Number of Records: 3

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
29	Galería del gastrónomo	Eduardo Saavedra	Rambla de Cataluña, 23	Barcelona	08022	Spain
30	Godos Cocina Típica	José Pedro Freyre	C/ Romero, 33	Sevilla	41101	Spain
69	Romero y tomillo	Alejandra Camino	Gran Vía, 1	Madrid	28001	Spain

SQL Statement:

```
SELECT * FROM Customers
WHERE Country = 'Spain'
AND CustomerName LIKE 'G%' OR CustomerName LIKE 'R%';
```

Result:

Number of Records: 8

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
29	Galería del gastrónomo	Eduardo Saavedra	Rambla de Cataluña, 23	Barcelona	08022	Spain
30	Godos Cocina Típica	José Pedro Freyre	C/ Romero, 33	Sevilla	41101	Spain
64	Rancho grande	Sergio Gutiérrez	Av. del Libertador 900	Buenos Aires	1010	Argentina
65	Rattlesnake Canyon Grocery	Paula Wilson	2817 Milton Dr.	Albuquerque	87110	USA
66	Reggiani Caseifici	Maurizio Moroni	Strada Provinciale 124	Reggio Emilia	42100	Italy
67	Ricardo Adocicados	Janete Limeira	Av. Copacabana, 267	Rio de	02389-890	Brazil

Learning Activity 4: Or, Not, Insert Into & UPDATE

SQL Or

SQL Statement:

```
SELECT * FROM Customers
WHERE Country = 'Germany' OR Country = 'Spain';
```

Result:

Number of Records: 16

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
6	Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim	68306	Germany
8	Bólido Comidas preparadas	Martin Sommer	C/ Araquil, 67	Madrid	28023	Spain
17	Drachenblut Delikatessend	Sven Ottlieb	Walserweg 21	Aachen	52066	Germany
22	FISSA Fabrica Inter. Salchichas S.A.	Diego Roel	C/ Morazarzal, 86	Madrid	28034	Spain
25	Frankenversand	Peter Franken	Berliner Platz 43	München	80805	Germany
29	Galería del gastrónomo	Eduardo Saavedra	Rambla de Cataluña, 23	Barcelona	08022	Spain

SQL Statement:

```
SELECT * FROM Customers
WHERE City = 'Berlin'
OR CustomerName LIKE 'G%'
OR Country = 'Norway';
```

Result:

Number of Records: 7

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
29	Galería del gastrónomo	Eduardo Saavedra	Rambla de Cataluña, 23	Barcelona	08022	Spain
30	Godos Cocina Típica	José Pedro Freyre	C/ Romero, 33	Sevilla	41101	Spain
31	Gourmet Lanchonetes	André Fonseca	Av. Brasil, 442	Campinas	04876-786	Brazil
32	Great Lakes Food Market	Howard Snyder	2732 Baker Blvd.	Eugene	97403	USA
33	GROSELLA-Restaurante	Manuel Pereira	5ª Ave. Los Palos Grandes	Caracas	1081	Venezuela
70	Santé Gourmet	Jonas Bergulfsen	Erling Skakkes gate 78	Stavern	4110	Norway

SQL Not Operator

SQL Statement:

```
SELECT * FROM Customers
WHERE NOT Country = 'Spain';
```

Result:

Number of Records: 86

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
6	Blauer See	Hanna Moos	Forsterstr. 57	Mannheim	68306	Germany

NOT LIKE

SQL Statement:

```
SELECT * FROM Customers
WHERE CustomerName NOT LIKE 'A%';
```

Result:

Number of Records: 87

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden
6	Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim	68306	Germany
7	Blondel père et fils	Frédérique Citeaux	24, place Kléber	Strasbourg	67000	France
8	Bólide Comidas preparadas	Martin Sommer	C/ Araquil, 67	Madrid	28023	Spain
9	Bon app'	Laurence Lebihans	12, rue des Bouchers	Marseille	13008	France

NOT BETWEEN

SQL Statement:

```
SELECT * FROM Customers
WHERE CustomerID NOT BETWEEN 10 AND 60;
```

Result:

Number of Records: 40

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
6	Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim	68306	Germany
7	Blondel père et fils	Frédérique	24, place Kléber	Strasbourg	67000	France

NOT IN

SQL Statement:

```
SELECT * FROM Customers
WHERE City NOT IN ('Paris', 'London');
```

Result:

Number of Records: 83

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
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden
6	Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim	68306	Germany

Learning Activity 5: Null Values, Update, Delete & Select Top

Null

SQL Statement:

```
SELECT CustomerName, ContactName, Address
FROM Customers
WHERE Address IS NULL;
```

Result:

Number of Records: 0

CustomerName	ContactName	Address
--------------	-------------	---------

SQL Statement:

```
SELECT CustomerName, ContactName, Address
FROM Customers
WHERE Address IS NOT NULL;
```

Result:

Number of Records: 91

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.
Berglunds snabbköp	Christina Berglund	Berguvsvägen 8
Blauer See Delikatessen	Hanna Moos	Forsterstr. 57
Blondel père et fils	Frédérique Citeaux	24, place Kléber
Bólido Comidas preparadas	Martín Sommer	C/ Araquil, 67

Learning Activity6: Select Top, Aggregate Functions, Min and Max & Count

Select Top

SQL Statement:

```
SELECT TOP 3 * FROM Customers;
```

Result:

Number of Records: 3

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

Limit

SQL Statement:

```
SELECT * FROM Customers LIMIT 3;
```

Result:

Number of Records: 3

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

TOP PERCENT

SQL Statement:

```
SELECT TOP 50 PERCENT * FROM Customers;
```

Result:

Number of Records: 46

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
6	Blauer See	Hanna Moos	Forsterstr. 57	Mannheim	68306	Germany

MIN

SQL Statement:

```
SELECT MIN(Price)
FROM Products;
```

Result:

Number of Records: 1

Expr1000

2.5

MAX

SQL Statement:

```
SELECT MAX(Price)
FROM Products;
```

Result:

Number of Records: 1

Expr1000
263.5

Set Column Name (Alias)

SQL Statement:

```
SELECT MIN(Price) AS SmallestPrice, CategoryID
FROM Products
GROUP BY CategoryID;
```

Result:

Number of Records: 8

SmallestPrice	CategoryID
4.5	1
10	2
9.2	3
2.5	4
7	5
7.45	6
10	7
6	8

Count

SQL Statement:

```
SELECT COUNT(*)  
FROM Products;
```

Result:

Number of Records: 1

Expr1000
77

Specify Column

SQL Statement:

```
SELECT COUNT(ProductName)  
FROM Products;
```

Result:

Number of Records: 1

Expr1000
77

Learning Activity 7: Sum, Avg, Like, & Wildcards

Sum

SQL Statement:

```
SELECT SUM(Quantity)
FROM OrderDetails;
```

Result:

Number of Records: 1

Expr1000
12743

Sum with Expression

SQL Statement:

```
SELECT SUM(Price * Quantity)
FROM OrderDetails
LEFT JOIN Products ON OrderDetails.ProductID = Products.ProductID;
```

Result:

Number of Records: 1

Expr1000
386424.23

AVG

SQL Statement:

```
SELECT AVG(Price)
FROM Products;
```

Result:

Number of Records: 1

Expr1000
28.8664

Avg with GROUP BY

SQL Statement:

```
SELECT AVG(Price) AS AveragePrice, CategoryID
FROM Products
GROUP BY CategoryID;
```

Result:

Number of Records: 8

AveragePrice	CategoryID
37.9792	1
23.0625	2
25.16	3
28.73	4
20.25	5
54.0067	6
32.37	7
20.6825	8

LIKE

SQL Statement:

```
SELECT * FROM Customers
WHERE CustomerName LIKE 'a%';
```

Result:

Number of Records: 4

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

The %% Wildcard

SQL Statement:

```
SELECT * FROM Customers
WHERE City LIKE '%L%';
```

Result:

Number of Records: 41

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
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
9	Bon app'	Laurence Lebihans	12, rue des Bouchers	Marseille	13008	France
11	B's Beverages	Victoria Ashworth	Fauntleroy Circus	London	EC2 5NT	UK
15	Comércio Mineiro	Pedro Afonso	Av. dos Lusíadas, 23	São Paulo	05432-043	Brazil

SQL Statement:

```
SELECT * FROM Customers
WHERE CustomerName LIKE 'a%';
```

Result:

Number of Records: 4

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

_ Wildcard

SQL Statement:

```
SELECT * FROM Customers
WHERE City LIKE '_ondon';
```

Result:

Number of Records: 6

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
11	B's Beverages	Victoria Ashworth	Fauntleroy Circus	London	EC2 5NT	UK
16	Consolidated Holdings	Elizabeth Brown	Berkeley Gardens 12 Brewery	London	WX1 6LT	UK
19	Eastern Connection	Ann Devon	35 King George	London	WX3 6FW	UK
53	North/South	Simon Crowther	South House 300 Queensbridge	London	SW7 1RZ	UK
72	Seven Seas Imports	Hari Kumar	90 Wadhurst Rd.	London	OX15 4NB	UK

[] Wildcard

SQL Statement:

```
SELECT * FROM Customers
WHERE CustomerName LIKE '[bsp]%';
```

Result:

Number of Records: 18

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden
6	Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim	68306	Germany
7	Blondel père et fils	Frédérique Citeaux	24, place Kléber	Strasbourg	67000	France
8	Bólido Comidas preparadas	Martín Sommer	C/ Araquil, 67	Madrid	28023	Spain
9	Bon app'	Laurence Lebihans	12, rue des Bouchers	Marseille	13008	France
10	Bottom-Dollar Marketse	Elizabeth Lincoln	23 Tsawassen Blvd.	Tsawassen	T2F 8M4	Canada
11	B's Beverages	Victoria Ashworth	Fauntleroy Circus	London	EC2 5NT	UK
12	Bonaparte	Maria Perdomo	265 Boulevard	Paris	75012	France

Combine Wildcard

SQL Statement:

```
SELECT * FROM Customers
WHERE CustomerName LIKE 'a__%';
```

Result:

Number of Records: 4

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

Learning Activity8: IN, Between, Aliases, & Joins

SQL Statement:

```
SELECT * FROM Customers
WHERE Country IN ('Germany', 'France', 'UK');
```

Result:

Number of Records: 29

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
6	Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim	68306	Germany
7	Blondel père et fils	Frédérique Citeaux	24, place Kléber	Strasbourg	67000	France
9	Bon app'	Laurence Lebihans	12, rue des Bouchers	Marseille	13008	France
11	B's Beverages	Victoria Ashworth	Fauntleroy Circus	London	EC2 5NT	UK

NOT IN

SQL Statement:

```
SELECT * FROM Customers
WHERE Country NOT IN ('Germany', 'France', 'UK');
```

Result:

Number of Records: 62

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
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden
8	Bólido Comidas preparadas	Martin Sommer	C/ Araquil, 67	Madrid	28023	Spain
10	Bottom-Dollar Marketse	Elizabeth Lincoln	23 Tsawassen Blvd.	Tsawassen	T2F 8M4	Canada

IN (SELECT)

SQL Statement:

```
SELECT * FROM Customers
WHERE CustomerID IN (SELECT CustomerID FROM Orders);
```

Result:

Number of Records: 74

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

NOT IN (SELECT)

SQL Statement:

```
SELECT * FROM Customers
WHERE CustomerID NOT IN (SELECT CustomerID FROM Orders);
```

Result:

Number of Records: 17

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
6	Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim	68306	Germany
12	Cactus Comidas para llevar	Patricio Simpson	Cerrito 333	Buenos Aires	1010	Argentina
22	FISSA Fabrica Inter. Salchichas S.A.	Diego Roel	C/ Moralzarzal, 86	Madrid	28034	Spain
26	France restauration	Carine Schmitt	54, rue Royale	Nantes	44000	France
32	Great Lakes Food Market	Howard Snyder	2732 Baker Blvd.	Eugene	97403	USA
40	La corne d'abondance	Daniel Tonini	67, avenue de l'Europe	Versailles	78000	France

NOT BETWEEN

SQL Statement:

```
SELECT * FROM Products  
WHERE Price NOT BETWEEN 10 AND 20;
```

Result:

Number of Records: 48

ProductID	ProductName	SupplierID	CategoryID	Unit	Price
4	Chef Anton's Cajun Seasoning	2	2	48 - 6 oz jars	22
5	Chef Anton's Gumbo Mix	2	2	36 boxes	21.35
6	Grandma's Boysenberry Spread	3	2	12 - 8 oz jars	25
7	Uncle Bob's Organic Dried Pears	3	7	12 - 1 lb pkgs.	30
8	Northwoods Cranberry Sauce	3	2	12 - 12 oz jars	40
9	Mishi Kobe Niku	4	6	18 - 500 g pkgs.	97
10	Ikura	4	8	12 - 200 ml jars	31
11	Queso Cabrales	5	4	1 kg pkg.	21

BETWEEN WITH IN

SQL Statement:

```
SELECT * FROM Products  
WHERE Price BETWEEN 10 AND 20  
AND CategoryID IN (1,2,3);
```

Result:

Number of Records: 20

ProductID	ProductName	SupplierID	CategoryID	Unit	Price
1	Chais	1	1	10 boxes x 20 bags	18
2	Chang	1	1	24 - 12 oz bottles	19
3	Aniseed Syrup	1	2	12 - 550 ml bottles	10
15	Genen Shouyu	6	2	24 - 250 ml bottles	15.5
16	Pavlova	7	3	32 - 500 g boxes	17.45
21	Sir Rodney's Scones	8	3	24 pkgs. x 4 pieces	10
25	NuNuCa Nuß-Nougat-Creme	11	3	20 - 450 g glasses	14
34	Sasquatch Ale	16	1	24 - 12 oz bottles	14

Joins

```
SELECT Orders.OrderID, Customers.CustomerName, Orders.OrderDate
FROM Orders
INNER JOIN Customers
ON Orders.CustomerID=Customers.CustomerID;
```

Result:

Number of Records: 196

OrderID	CustomerName	OrderDate
10308	Ana Trujillo Emparedados y helados	9/18/1996
10365	Antonio Moreno Taquería	11/27/1996
10383	Around the Horn	12/16/1996
10355	Around the Horn	11/15/1996
10278	Berglunds snabbköp	8/12/1996
10280	Berglunds snabbköp	8/14/1996
10384	Berglunds snabbköp	12/16/1996
10436	Blondel père et fils	2/5/1997