

```
In [2]: %!  
pip install --trusted-host pypi.org ipython-sql
```

```
Out[2]: ['Requirement already satisfied: ipython-sql in c:\\users\\karaev\\anaconda3\\lib\\site-packages (0.5.0)',  
'Requirement already satisfied: ipython in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from ipython-sql) (7.19.0)',  
'Requirement already satisfied: sqlalchemy>=2.0 in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from ipython-sql) (2.0.7)',  
'Requirement already satisfied: prettytable in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from ipython-sql) (3.6.0)',  
'Requirement already satisfied: sqlparse in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from ipython-sql) (0.4.3)',  
'Requirement already satisfied: six in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from ipython-sql) (1.15.0)',  
'Requirement already satisfied: ipython-genutils in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from ipython-sql) (0.2.0)',  
'Requirement already satisfied: typing-extensions>=4.2.0 in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from sqlalchemy>=2.0->ipython-sql) (4.5.0)',  
'Requirement already satisfied: greenlet!=0.4.17 in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from sqlalchemy>=2.0->ipython-sql) (2.0.2)',  
'Requirement already satisfied: traitlets>=4.2 in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from ipython->ipython-sql) (5.0.5)',  
'Requirement already satisfied: pickleshare in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from ipython->ipython-sql) (0.7.5)',  
'Requirement already satisfied: colorama in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from ipython->ipython-sql) (0.4.4)',  
'Requirement already satisfied: setuptools>=18.5 in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from ipython->ipython-sql) (50.3.1.post20201107)',  
'Requirement already satisfied: prompt-toolkit!=3.0.0,!<3.0.1,>=2.0.0 in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from ipython->ipython-sql) (3.0.8)',  
'Requirement already satisfied: backcall in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from ipython->ipython-sql) (0.2.0)',  
'Requirement already satisfied: pygments in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from ipython->ipython-sql) (2.7.2)',  
'Requirement already satisfied: jedi>=0.10 in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from ipython->ipython-sql) (0.17.1)',  
'Requirement already satisfied: decorator in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from ipython->ipython-sql) (4.4.2)',  
'Requirement already satisfied: wcwidth in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from prettytable->ipython-sql) (0.2.5)',  
'Requirement already satisfied: parso<0.8.0,>=0.7.0 in c:\\users\\karaev\\anaconda3\\lib\\site-packages (from jedi>=0.10->ipython->ipython-sql) (0.7.0)']
```

Sql i çağırma

```
In [3]: load_ext sql
```

Veritabanının üzerinde çalışmak için gerekli kod

```
In [4]: %%sql  
sqlite:///ist.db
```

Tablodan kayıt gösterimi(10 tane)

```
In [8]: %%sql  
SELECT * FROM Products LIMIT 10;  
  
* sqlite:///ist.db  
Done.
```

```
Out[8]:
```

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

ProductID	ProductName	SupplierID	CategoryID	Unit	Price
3	Aniseed Syrup	1	2	12 - 550 ml bottles	10
4	Chef Anton's Cajun Seasoning	2	2	48 - 6 oz jars	22
5	Chef Anton's Gumbo Mix	2	2	36 boxes	21
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

count satır sayısı

```
In [10]: %%sql
select count(*) from Products
```

```
* sqlite:///ist.db
Done.
```

```
Out[10]: count(*)
77
```

avg ortalama alma

```
In [15]: %%sql
select avg(Price) as ortalama_fiyat from Products
```

```
* sqlite:///ist.db
Done.
```

```
Out[15]: ortalama_fiyat
39.15584415584416
```

sum toplam değer

```
In [17]: %%sql
select sum(price) as genel_toplam from Products
```

```
* sqlite:///ist.db
Done.
```

```
Out[17]: genel_toplam
3015
```

Manuel tablo oluşturma işlemleri

```
In [8]: %%sql
CREATE TABLE deneme(adsoyad varchar(30),
                    numara integer(11));
```

```
* sqlite:///ist.db
Done.
```

Out[8]: []

Tabloyu silme

```
In [9]: %%sql
drop table deneme;
```

```
* sqlite:///ist.db
Done.
```

Out[9]: []

Yeni Kayıt Ekleme

```
In [10]: %%sql
INSERT INTO yeni_tablo values('fatih','1453');
```

```
* sqlite:///ist.db
1 rows affected.
```

Out[10]: []

Veritabanındaki tablo isimlerine erişmek

```
In [20]: %%sql
Select name from sqlite_master where type='table';
```

```
* sqlite:///ist.db
Done.
```

```
Out[20]:
```

<u>name</u>
Products
Categories
Customers
Employees
OrderDetails
Orders
Shippers
Suppliers
yeni_tablo

Bir tablodaki değişken isimlerine erişmek

```
In [20]: %%sql
SELECT *FROM Customers Where 1=0;
```

```
* sqlite:///ist.db
Done.
```

```
Out[20]:
```

<u>CustomerID</u>	<u>CustomerName</u>	<u>ContactName</u>	<u>Address</u>	<u>City</u>	<u>PostalCode</u>	<u>Country</u>
-------------------	---------------------	--------------------	----------------	-------------	-------------------	----------------

```
In [21]: %%sql
SELECT * FROM Customers LIMIT 3;
```

```
* sqlite:///ist.db
Done.
```

```
Out[21]:
```

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.	5021	Mexico
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	5023	Mexico

Tabloda bulunan seçili alanlara ait kayıt bilgisinin görüntülenmesi

```
In [22]: %%sql
SELECT CustomerID, City FROM Customers LIMIT 3;
```

```
* sqlite:///ist.db
Done.
```

```
Out[22]:
```

CustomerID	City
1	Berlin
2	México D.F.
3	México D.F.

```
In [24]: %%sql
select * from products limit 3;
```

```
* sqlite:///ist.db
Done.
```

```
Out[24]:
```

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

Price alanının iki katını hesaplayıp ikisini birlikte gösteren kod

```
In [12]: %%sql
select price, price*2 from products limit 5;
```

```
* sqlite:///ist.db
Done.
```

```
Out[12]:
```

Price	price*2
18	36
19	38

Price	price*2
10	20
22	44
21	42

orderby sıralama(desc:büyükten küçüğe)

```
In [21]: %%sql
select * from products order by price desc limit 10;
```

```
* sqlite:///ist.db
Done.
```

```
Out[21]:
```

ProductID	ProductName	SupplierID	CategoryID	Unit	Price
31	Gorgonzola Telino	14	4	12 - 100 g pkgs	435
38	Côte de Blaye	18	1	12 - 75 cl bottles	263
29	Thüringer Rostbratwurst	12	6	50 bags x 30 sausgs.	123
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
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
43	Ipoh Coffee	20	1	16 - 500 g tins	46

where and,or

```
In [22]: %%sql
select * from Customers where Country='Sweden';
```

```
* sqlite:///ist.db
Done.
```

```
Out[22]:
```

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden
24	Folk och få HB	Maria Larsson	Åkergatan 24	Bräcke	S-844 67	Sweden

```
In [24]: %%sql
select * from Customers where Country='Sweden' or Country='USA';
```

```
* sqlite:///ist.db
Done.
```

```
Out[24]:
```

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden
24	Folk och få HB	Maria Larsson	Åkergatan 24	Bräcke	S-844 67	Sweden

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
32	Great Lakes Food Market	Howard Snyder	2732 Baker Blvd.	Eugene	97403	USA
36	Hungry Coyote Import Store	Yoshi Latimer	City Center Plaza 516 Main St.	Elgin	97827	USA
43	Lazy K Kountry Store	John Steel	12 Orchestra Terrace	Walla Walla	99362	USA
45	Let's Stop N Shop	Jaime Yorres	87 Polk St. Suite 5	San Francisco	94117	USA
48	Lonesome Pine Restaurant	Fran Wilson	89 Chiaroscuro Rd.	Portland	97219	USA
55	Old World Delicatessen	Rene Phillips	2743 Bering St.	Anchorage	99508	USA
65	Rattlesnake Canyon Grocery	Paula Wilson	2817 Milton Dr.	Albuquerque	87110	USA
71	Save-a-lot Markets	Jose Pavarotti	187 Suffolk Ln.	Boise	83720	USA
75	Split Rail Beer & Ale	Art Braunschweiger	P.O. Box 555	Lander	82520	USA
77	The Big Cheese	Liz Nixon	89 Jefferson Way Suite 2	Portland	97201	USA
78	The Cracker Box	Liu Wong	55 Grizzly Peak Rd.	Butte	59801	USA
82	Trail's Head Gourmet Provisioners	Helvetius Nagy	722 DaVinci Blvd.	Kirkland	98034	USA
89	White Clover Markets	Karl Jablonski	305 - 14th Ave. S. Suite 3B	Seattle	98128	USA

In [25]:

```
%%sql
select *from Customers where Country='Germany' and City='Berlin';
```

```
* sqlite:///ist.db
Done.
```

Out[25]:

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

In [26]:

```
%%sql
select *from Customers where Country='Germany' and(City='Berlin' or PostalCode=52066)
```

```
* sqlite:///ist.db
Done.
```

Out[26]:

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
17	Drachenblut Delikatessend	Sven Ottlieb	Walsersweg 21	Aachen	52066	Germany

where in, not kullanımı

```
In [8]: %%sql
select *from Customers where CustomerID in(1,3,5,7);
```

```
* sqlite:///ist.db
Done.
```

```
Out[8]:
```

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	5023	Mexico
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

```
In [17]: %%sql
select *from Customers where CustomerName LIKE "A%";
```

```
* sqlite:///ist.db
Done.
```

```
Out[17]:
```

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.	5021	Mexico
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	5023	Mexico
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK

```
In [20]: %%sql
select *from Customers where not CustomerID in(1,3,5,7,8,9,10,11,13);
```

```
* sqlite:///ist.db
Done.
```

```
Out[20]:
```

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	México D.F.	5021	Mexico
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
6	Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim	68306	Germany
12	Cactus Comidas para llevar	Patricio Simpson	Cerrito 333	Buenos Aires	1010	Argentina
14	Chop-suey Chinese	Yang Wang	Hauptstr. 29	Bern	3012	Switzerland
15	Comércio Mineiro	Pedro Afonso	Av. dos Lusíadas, 23	São Paulo	05432-043	Brazil
16	Consolidated Holdings	Elizabeth Brown	Berkeley Gardens 12 Brewery	London	WX1 6LT	UK

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
17	Drachenblut Delikatessend	Sven Ottlieb	Walsерweg 21	Aachen	52066	Germany
18	Du monde entier	Janine Labrune	67, rue des Cinquante Otages	Nantes	44000	France
19	Eastern Connection	Ann Devon	35 King George	London	WX3 6FW	UK
20	Ernst Handel	Roland Mendel	Kirchgasse 6	Graz	8010	Austria
21	Familia Arquibaldo	Aria Cruz	Rua Orós, 92	São Paulo	05442-030	Brazil
22	FISSA Fabrica Inter. Salchichas S.A.	Diego Roel	C/ Moralarzal, 86	Madrid	28034	Spain
23	Folies gourmandes	Martine Rancé	184, chaussée de Tournai	Lille	59000	France
24	Folk och få HB	Maria Larsson	Åkergatan 24	Bräcke	S-844 67	Sweden
25	Frankenversand	Peter Franken	Berliner Platz 43	München	80805	Germany
26	France restauration	Carine Schmitt	54, rue Royale	Nantes	44000	France
27	Franchi S.p.A.	Paolo Accorti	Via Monte Bianco 34	Torino	10100	Italy
28	Furia Bacalhau e Frutos do Mar	Lino Rodriguez	Jardim das rosas n. 32	Lisboa	1675	Portugal
29	Galería del gastrónomo	Eduardo Saavedra	Rambla de Cataluña, 23	Barcelona	8022	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
34	Hanari Carnes	Mario Pontes	Rua do Paço, 67	Rio de Janeiro	05454-876	Brazil
35	HILARIÓN- Abastos	Carlos Hernández	Carrera 22 con Ave. Carlos Soubllette #8- 35	San Cristóbal	5022	Venezuela
36	Hungry Coyote Import Store	Yoshi Latimer	City Center Plaza 516 Main St.	Elgin	97827	USA
37	Hungry Owl All- Night Grocers	Patricia McKenna	8 Johnstown Road	Cork	None	Ireland
38	Island Trading	Helen Bennett	Garden House Crowther Way	Cowes	PO31 7PJ	UK

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
39	Königlich Essen	Philip Cramer	Maubelstr. 90	Brandenburg	14776	Germany
40	La corne d'abondance	Daniel Tonini	67, avenue de l'Europe	Versailles	78000	France
41	La maison d'Asie	Annette Roulet	1 rue Alsace-Lorraine	Toulouse	31000	France
42	Laughing Bacchus Wine Cellars	Yoshi Tannamuri	1900 Oak St.	Vancouver	V3F 2K1	Canada
43	Lazy K Kountry Store	John Steel	12 Orchestra Terrace	Walla Walla	99362	USA
44	Lehmanns Marktstand	Renate Messner	Magazinweg 7	Frankfurt a.M.	60528	Germany
45	Let's Stop N Shop	Jaime Yorres	87 Polk St. Suite 5	San Francisco	94117	USA
46	LILA-Supermercado	Carlos González	Carrera 52 con Ave. Bolívar #65-98 Llano Largo	Barquisimeto	3508	Venezuela
47	LINO-Delicatesses	Felipe Izquierdo	Ave. 5 de Mayo Porlamar	I. de Margarita	4980	Venezuela
48	Lonesome Pine Restaurant	Fran Wilson	89 Chiaroscuro Rd.	Portland	97219	USA
49	Magazzini Alimentari Riuniti	Giovanni Rovelli	Via Ludovico il Moro 22	Bergamo	24100	Italy
50	Maison Dewey	Catherine Dewey	Rue Joseph-Bens 532	Bruxelles	B-1180	Belgium
51	Mère Paillard	Jean Fresnière	43 rue St. Laurent	Montréal	H1J 1C3	Canada
52	Morgenstern Gesundkost	Alexander Feuer	Heerstr. 22	Leipzig	4179	Germany
53	North/South	Simon Crowther	South House 300 Queensbridge	London	SW7 1RZ	UK
54	Océano Atlántico Ltda.	Yvonne Moncada	Ing. Gustavo Moncada 8585 Piso 20-A	Buenos Aires	1010	Argentina
55	Old World Delicatessen	Rene Phillips	2743 Bering St.	Anchorage	99508	USA
56	Ottilies Käseladen	Henriette Pfalzheim	Mehrheimerstr. 369	Köln	50739	Germany
57	Paris spécialités	Marie Bertrand	265, boulevard Charonne	Paris	75012	France
58	Pericles Comidas clásicas	Guillermo Fernández	Calle Dr. Jorge Cash 321	México D.F.	5033	Mexico
59	Piccolo und	Georg Pipp	Geislweg 14	Salzburg	5020	Austria

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
	mehr					
60	Princesa Isabel Vinhoss	Isabel de Castro	Estrada da saúde n. 58	Lisboa	1756	Portugal
61	Que Delícia	Bernardo Batista	Rua da Panificadora, 12	Rio de Janeiro	02389-673	Brazil
62	Queen Cozinha	Lúcia Carvalho	Alameda dos Canários, 891	São Paulo	05487-020	Brazil
63	QUICK-Stop	Horst Kloss	Taucherstraße 10	Cunewalde	1307	Germany
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 Janeiro	02389-890	Brazil
68	Richter Supermarkt	Michael Holz	Grenzacherweg 237	Genève	1203	Switzerland
69	Romero y tomillo	Alejandra Camino	Gran Vía, 1	Madrid	28001	Spain
70	Santé Gourmet	Jonas Bergulfsen	Erling Skakkes gate 78	Stavern	4110	Norway
71	Save-a-lot Markets	Jose Pavarotti	187 Suffolk Ln.	Boise	83720	USA
72	Seven Seas Imports	Hari Kumar	90 Wadhurst Rd.	London	OX15 4NB	UK
73	Simons bistro	Jytte Petersen	Vinbæltet 34	København	1734	Denmark
74	Spécialités du monde	Dominique Perrier	25, rue Lauriston	Paris	75016	France
75	Split Rail Beer & Ale	Art Braunschweiger	P.O. Box 555	Lander	82520	USA
76	Suprêmes délices	Pascale Cartrain	Boulevard Tirou, 255	Charleroi	B-6000	Belgium
77	The Big Cheese	Liz Nixon	89 Jefferson Way Suite 2	Portland	97201	USA
78	The Cracker Box	Liu Wong	55 Grizzly Peak Rd.	Butte	59801	USA
79	Toms Spezialitäten	Karin Josephs	Luisenstr. 48	Münster	44087	Germany
80	Tortuga Restaurante	Miguel Angel Paolino	Avda. Azteca 123	México D.F.	5033	Mexico
81	Tradição Hipermercados	Anabela Domingues	Av. Inês de Castro, 414	São Paulo	05634-030	Brazil

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
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
88	Wellington Importadora	Paula Parente	Rua do Mercado, 12	Resende	08737-363	Brazil
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

LIKE

'a%': a ile başlayan '%a':a ile biten '_r': ikinci harfi r olan

```
In [21]: %%sql
select *from Customers where CustomerName LIKE "%a";
```

```
* sqlite:///ist.db
Done.
```

```
Out[21]:
```

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	5023	Mexico
13	Centro comercial Moctezuma	Francisco Chang	Sierras de Granada 9993	México D.F.	5022	Mexico
30	Godos Cocina Típica	José Pedro Freyre	C/ Romero, 33	Sevilla	41101	Spain
61	Que Delícia	Bernardo Batista	Rua da Panificadora, 12	Rio de Janeiro	02389-673	Brazil
62	Queen Cozinha	Lúcia Carvalho	Alameda dos Canários, 891	São Paulo	05487-020	Brazil
88	Wellington Importadora	Paula Parente	Rua do Mercado, 12	Resende	08737-363	Brazil
90	Wilman Kala	Matti Karttunen	Keskuskatu 45	Helsinki	21240	Finland

In [25]:

```
%%sql
select *from Customers where CustomerName LIKE "__o%";
```

```
* sqlite:///ist.db
Done.
```

Out[25]:

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
7	Blondel père et fils	Frédérique Citeaux	24, place Kléber	Strasbourg	67000	France
14	Chop-suey Chinese	Yang Wang	Hauptstr. 29	Bern	3012	Switzerland
33	GROSELLA-Restaurante	Manuel Pereira	5ª Ave. Los Palos Grandes	Caracas	1081	Venezuela

In [26]:

```
%%sql
select *from Customers where CustomerName LIKE "%or%";
```

```
* sqlite:///ist.db
Done.
```

Out[26]:

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	5023	Mexico
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
36	Hungry Coyote Import Store	Yoshi Latimer	City Center Plaza 516 Main St.	Elgin	97827	USA
40	La corne d'abondance	Daniel Tonini	67, avenue de l'Europe	Versailles	78000	France
43	Lazy K Kountry Store	John Steel	12 Orchestra Terrace	Walla Walla	99362	USA
52	Morgenstern Gesundkost	Alexander Feuer	Heerstr. 22	Leipzig	4179	Germany
53	North/South	Simon Crowther	South House 300 Queensbridge	London	SW7 1RZ	UK
55	Old World Delicatessen	Rene Phillips	2743 Bering St.	Anchorage	99508	USA
72	Seven Seas Imports	Hari Kumar	90 Wadhurst Rd.	London	OX15 4NB	UK
80	Tortuga Restaurante	Miguel Angel Paolino	Avda. Azteca 123	México D.F.	5033	Mexico
88	Wellington Importadora	Paula Parente	Rua do Mercado, 12	Resende	08737-363	Brazil

In [32]:

```
%%sql
select *from Customers where CustomerName LIKE "a%";
```

```
* sqlite:///ist.db
Done.
```

```
Out[32]:
```

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.	5021	Mexico
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	5023	Mexico
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK

```
In [29]: %%sql
select *from Customers where CustomerName LIKE "a%";
```

```
* sqlite:///ist.db
Done.
```

```
Out[29]:
```

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.	5021	Mexico
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	5023	Mexico
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK

where... between... and ...

```
In [30]: %%sql
select *from Products where Price Between 10 and 20;
```

```
* sqlite:///ist.db
Done.
```

```
Out[30]:
```

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
16	Pavlova	7	3	32 - 500 g boxes	17
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
35	Steeleye Stout	16	1	24 - 12 oz bottles	18
36	Inlagd Sill	17	8	24 - 250 g jars	19
39	Chartreuse verte	18	1	750 cc per bottle	18
42	Singaporean Hokkien Fried Mee	20	5	32 - 1 kg pkgs.	14
44	Gula Malacca	20	2	20 - 2 kg bags	19
46	Spegesild	21	8	4 - 450 g glasses	12

ProductID	ProductName	SupplierID	CategoryID	Unit	Price
49	Maxilaku	23	3	24 - 50 g pkgs.	20
50	Valkoinen suklaa	23	3	12 - 100 g bars	16
54	Tourtière	25	6	16 pies	16
58	Escargots de Bourgogne	27	8	24 pieces	13
66	Louisiana Hot Spiced Okra	2	2	24 - 8 oz jars	17
67	Laughing Lumberjack Lager	16	1	24 - 12 oz bottles	14
70	Outback Lager	7	1	24 - 355 ml bottles	15
73	Röd Kaviar	17	8	24 - 150 g jars	15
74	Longlife Tofu	4	7	5 kg pkg.	10
76	Lakkalikööri	23	1	500 ml	18
77	Original Frankfurter grüne Soße	12	2	12 boxes	13

In []: