

Задание. SQL запросы

Задание 1

Запросы для таблицы **Customers**:

7. Вывести клиентов из Германии и США, ограничить выбор 10 записями.

SELECT * FROM Customers WHERE Country LIKE 'Germany' OR Country LIKE 'USA' LIMIT 10

SQL Statement: [Get your own SQL server](#)

```
SELECT * FROM Customers WHERE Country LIKE 'Germany' OR Country LIKE 'USA' LIMIT 10
```

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

Run SQL »

Result:

Number of Records: 10

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
17	Drachenblut Delikatessend	Sven Ottlieb	Walsenweg 21	Aachen	52066	Germany
25	Frankenversand	Peter Franken	Berliner Platz 43	München	80805	Germany
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
39	Königlich Essen	Philip Cramer	Maubelstr. 90	Brandenburg	14776	Germany
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

Задание 2

Запросы для таблицы **Products**:

1. Выбрать все продукты, начинающиеся на букву М.

SELECT ProductName FROM Products WHERE ProductName LIKE 'M%'

SQL Statement:

```
SELECT ProductName FROM Products WHERE ProductName LIKE 'M%'
```

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

Run SQL »

Result:

Number of Records: 5

ProductName
Mishi Kobe Niku
Mascarpone Fabioli
Maxilaku
Manjimup Dried Apples
Mozzarella di Giovanni

2. Вывести характеристику упаковки (unit) для товара Steeleye Stout.
SELECT Unit FROM Products WHERE ProductName LIKE 'Steeleye Stout'

SQL Statement:

```
SELECT Unit FROM Products WHERE ProductName LIKE 'Steeleye Stout'
```

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

[Run SQL »](#)

Result:

Number of Records: 1

Unit
24 - 12 oz bottles

3. Вывести названия товаров, цена которых выше 22.
SELECT ProductName FROM Products WHERE Price >22

SQL Statement:

```
SELECT ProductName FROM Products WHERE Price >22
```

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

[Run SQL »](#)

Result:

Number of Records: 31

ProductName
Grandma's Boysenberry Spread
Uncle Bob's Organic Dried Pears
Northwoods Cranberry Sauce
Mishi Kobe Niku
Ikura
Queso Manchego La Pastora
Tofu
Alice Mutton

4. Вывести товары, в которых вес упаковки составляет 250 g.
SELECT * FROM Products WHERE Unit LIKE '%250 g%'

SQL Statement:

```
SELECT ProductName FROM Products WHERE Unit LIKE '%250 g%'
```

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

Run SQL »

Result:

Number of Records: 5

ProductName
Tunnbröd
Gumbär Gummibärchen
Inlagd Sill
Gnocchi di nonna Alice
Ravioli Angelo

5. Вывести товары, упаковка которых состоит из «bottles»
SELECT * FROM Products WHERE Unit LIKE '%bottles%'

SQL Statement:

```
SELECT ProductName FROM Products WHERE Unit LIKE '%bottles%'
```

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

Run SQL »

Result:

Number of Records: 11

ProductName
Chang
Aniseed Syrup
Genen Shouyu
Sasquatch Ale
Steeleye Stout
Côte de Blaye
Sirop d'érable
Louisiana Fiery Hot Pepper Sauce

6. Вывести товары, где SupplierID составляет 7, и отсортировать результаты по убыванию по цене.

SELECT * FROM Products WHERE SupplierID = 7 ORDER BY Price DESC

SQL Statement:

```
SELECT ProductName FROM Products WHERE SupplierID = 7 ORDER BY Price DESC
```

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

Run SQL >

Result:

Number of Records: 5

ProductName
Carnarvon Tigers
Vegie-spread
Alice Mutton
Pavlova
Outback Lager

Задание 3

На веб-странице существует кнопка «Быстрый поиск», которая выделяет из таблицы character в базе данных всех персонажей выше 45 уровня (столбец level) расы dwarf (столбец race) и выводит результат на страницу. Укажите, как будет выглядеть в данном случае SQL-запрос.

SELECT * FROM character WHERE level > 45 AND race LIKE 'dwarf'

Задание 4

Запросы для таблицы **Employees**:

1. Вывести имена, фамилии сотрудников, записи о них.

SELECT FirstName, LastName, Notes FROM Employees

SQL Statement: [Get your own SQL server](#)

```
SELECT FirstName, LastName, Notes FROM Employees
```

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

Run SQL »

Result:

Number of Records: 10

FirstName	LastName	Notes
Nancy	Davolio	Education includes a BA in psychology from Colorado State University. She also completed (The Art of the Cold Call). Nancy is a member of 'Toastmasters International'.
Andrew	Fuller	Andrew received his BTS commercial and a Ph.D. in international marketing from the University of Dallas. He is fluent in French and Italian and reads German. He joined the company as a sales representative, was promoted to sales manager and was then named vice president of sales. Andrew is a member of the Sales Management Roundtable, the Seattle Chamber of Commerce, and the Pacific Rim Importers Association.
Janet	Leverling	Janet has a BS degree in chemistry from Boston College). She has also completed a certificate program in food retailing management. Janet was hired as a sales associate and was promoted to sales representative.
Margaret	Peacock	Margaret holds a BA in English literature from Concordia College and an MA from the American Institute of Culinary Arts. She was temporarily assigned to the London office before returning to her permanent post in Seattle.
Steven	Buchanan	Steven Buchanan graduated from St. Andrews University, Scotland, with a BSC degree. Upon joining the company as a sales representative, he spent 6 months in an orientation program at the Seattle office and then returned to his permanent post in London, where he was promoted to sales manager. Mr. Buchanan has completed the courses 'Successful Telemarketing' and 'International Sales Management'. He is fluent in French.
Michael	Suyama	Michael is a graduate of Sussex University (MA, economics) and the University of California at Los Angeles (MBA, marketing). He has also taken the courses 'Multi-Cultural Selling' and 'Time Management for the Sales Professional'. He is fluent in Japanese and can read and write French,

2. Вывести информацию о работниках старше 1960 года.

SELECT * FROM Employees WHERE BirthDate <'1960%'

SQL Statement: [Get your own SQL server](#)

```
SELECT * FROM Employees WHERE BirthDate <'1960%'
```

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

Run SQL »

Result:

Number of Records: 5

EmployeeID	LastName	FirstName	BirthDate	Photo	Notes
2	Fuller	Andrew	1952-02-19	EmpID2.pic	Andrew received his BTS commercial and a Ph.D. in international marketing from the University of Dallas. He is fluent in French and Italian and reads German. He joined the company as a sales representative, was promoted to sales manager and was then named vice president of sales. Andrew is a member of the Sales Management Roundtable, the Seattle Chamber of Commerce, and the Pacific Rim Importers Association.
4	Peacock	Margaret	1958-09-19	EmpID4.pic	Margaret holds a BA in English literature from Concordia College and an MA from the American Institute of Culinary Arts. She was temporarily assigned to the London office before returning to her permanent post in Seattle.
5	Buchanan	Steven	1955-03-04	EmpID5.pic	Steven Buchanan graduated from St. Andrews University, Scotland, with a BSC degree. Upon joining the company as a sales representative, he spent 6 months in an orientation program at the Seattle office and then returned to his permanent post in London, where he was promoted to sales manager. Mr. Buchanan has completed the courses 'Successful Telemarketing' and 'International Sales Management'. He is fluent in French.
8	Callahan	Laura	1958-01-09	EmpID8.pic	Laura received a BA in psychology from the University of Washington. She has also completed a course in business French. She reads and writes French.
10	West	Adam	1928-09-	EmpID10.pic	An old chum.

3. Вывести даты рождения сотрудников, чьи имена начинаются на букву А.
SELECT BirthDate FROM Employees WHERE FirstName LIKE 'A%'

SQL Statement:

```
SELECT BirthDate FROM Employees WHERE FirstName LIKE 'A%'
```

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

Run SQL »

Result:

Number of Records: 3

BirthDate
1952-02-19
1969-07-02
1928-09-19

4. Вывести имена, фамилии и даты рождения сотрудников, отсортировав результаты по дате рождения по возрастанию.

SELECT FirstName, LastName, BirthDate FROM Employees ORDER BY BirthDate ASC

SQL Statement:

```
SELECT FirstName, LastName, BirthDate FROM Employees ORDER BY BirthDate ASC
```

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

Run SQL »

Result:

Number of Records: 10

FirstName	LastName	BirthDate
Adam	West	1928-09-19
Andrew	Fuller	1952-02-19
Steven	Buchanan	1955-03-04
Laura	Callahan	1958-01-09
Margaret	Peacock	1958-09-19
Robert	King	1960-05-29
Michael	Suyama	1963-07-02
Janet	Leverling	1963-08-30
Nancy	Davolio	1968-12-08
Anne	Dodsworth	1969-07-02

Задание 5*

Зайти на главную страницу SQL fiddle <http://sqlfiddle.com/> и создать свою таблицу. Использовать команды Create, Insert into, Update, Delete.

Столбцы Name, Surname, Age, Login, Password, E-mail.

Значения

```
('Nick', 'Brown', '32', 'LogNick', '12pass', 'nick@gmail.com'),  
( 'Mike', 'Tobler', '26', 'SunF', '12qwerty', 'sunF@mail.ru'),  
( 'Kate', 'Brown', '28', 'Katitty', '4test*12', 'KateBrown@mail.ru'),  
( 'Nick', 'Bonner', '21', 'FIQSt', '12qweq', 'BonNick@yandex.ru'),  
( 'Tom', 'Boyer', '40', 'preSTOM', '4test*12', 'preSTOM@tut.by'),  
( 'Alex', 'Lord', '26', 'nutt7', '2floppynut', 'lord@gmail.com');
```

CREATE TABLE Users (

Name varchar (4),

Surname varchar (6),

Age int,

Login varchar (7),

Password varchar (10),

Email varchar (20)

);

INSERT INTO Users (Name, Surname, Age, Login, Password, Email)

VALUES ('Nick', 'Brown', 32, 'LogNick', '12pass', 'nick@gmail.com'),

('Mike', 'Tobler', 26, 'SunF', '12qwerty', 'sunF@mail.ru'),

('Kate', 'Brown', 28, 'Katitty', '4test*12', 'KateBrown@mail.ru'),

('Nick', 'Bonner', 21, 'FIQSt', '12qweq', 'BonNick@yandex.ru'),

('Tom', 'Boyer', 40, 'preSTOM', '4test*12', 'preSTOM@tut.by'),

('Alex', 'Lord', 26, 'nutt7', '2floppynut', 'lord@gmail.com');

```
1 CREATE TABLE Users (  
2 Name varchar (4),  
3 Surname varchar (6),  
4 Age int,  
5 Login varchar (7),  
6 Password varchar (10),  
7 Email varchar (20)  
8 );  
9 INSERT INTO Users (Name, Surname, Age, Login, Password, Email)  
10 VALUES ('Nick', 'Brown', 32, 'LogNick', '12pass', 'nick@gmail.com'),  
11 ('Mike', 'Tobler', 26, 'SunF', '12qwerty', 'sunF@mail.ru'),  
12 ('Kate', 'Brown', 28, 'Katitty', '4test*12', 'KateBrown@mail.ru'),  
13 ('Nick', 'Bonner', 21, 'FIQSt', '12qweq', 'BonNick@yandex.ru'),  
14 ('Tom', 'Boyer', 40, 'preSTOM', '4test*12', 'preSTOM@tut.by');
```

```
1 SELECT * FROM Users
```

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Name	Surname	Age	Login	Password	Email
Nick	Brown	32	LogNick	12pass	nick@gmail.com
Mike	Tobler	26	SunF	12qwerty	sunF@mail.ru
Kate	Brown	28	Katitty	4test*12	KateBrown@mail.ru
Nick	Bonner	21	FIQSt	12qweq	BonNick@yandex.ru
Tom	Boyer	40	preSTOM	4test*12	preSTOM@tut.by
Alex	Lord	26	nutt7	2floppynut	lord@gmail.com

Заменить фамилию Brown на Black

UPDATE Users SET Surname = 'Black' WHERE Surname ='Brown'

```
5 Login varchar (7),
6 Password varchar (10),
7 Email varchar (20)
8 );
9 INSERT INTO Users (Name, Surname, Age, Login, Password, Email)
10 VALUES ('Nick', 'Brown', 32, 'LogNick', '12pass', 'nick@gmail.com'),
11 ('Mike', 'Tobler', 26, 'SunF', '12qwerty', 'sunF@mail.ru'),
12 ('Kate', 'Brown', 28, 'Katitty', '4test*12', 'KateBrown@mail.ru'),
13 ('Nick', 'Bonner', 21, 'FIQSt', '12qweq', 'BonNick@yandex.ru'),
14 ('Tom', 'Boyer', 40, 'preSTOM', '4test*12', 'preSTOM@tut.by'),
15 ('Alex', 'Lord', 26, 'nutt7', '2floppynut', 'lord@gmail.com');
16
17 UPDATE Users SET Surname = 'Black' WHERE Surname ='Brown'
18
```

```
1 SELECT * FROM Users
2
```

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Name	Surname	Age	Login	Password	Email
Nick	Black	32	LogNick	12pass	nick@gmail.com
Mike	Tobler	26	SunF	12qwerty	sunF@mail.ru
Kate	Black	28	Katitty	4test*12	KateBrown@mail.ru
Nick	Bonner	21	FIQSt	12qweq	BonNick@yandex.ru
Tom	Boyer	40	preSTOM	4test*12	preSTOM@tut.by
Alex	Lord	26	nutt7	2floppynut	lord@gmail.com

Удалить пользователей с фамилией Brown

DELETE FROM USERS WHERE Surname ='Brown'

```
5 Login varchar (7),
6 Password varchar (10),
7 Email varchar (20)
8 );
9 INSERT INTO Users (Name, Surname, Age, Login, Password, Email)
10 VALUES ('Nick', 'Brown', 32, 'LogNick', '12pass', 'nick@gmail.com'),
11 ('Mike', 'Tobler', 26, 'SunF', '12qwerty', 'sunF@mail.ru'),
12 ('Kate', 'Brown', 28, 'Katitty', '4test*12', 'KateBrown@mail.ru'),
13 ('Nick', 'Bonner', 21, 'FIQSt', '12qweq', 'BonNick@yandex.ru'),
14 ('Tom', 'Boyer', 40, 'preSTOM', '4test*12', 'preSTOM@tut.by'),
15 ('Alex', 'Lord', 26, 'nutt7', '2floppynut', 'lord@gmail.com');
16
17 DELETE FROM USERS WHERE Surname ='Brown'
18
```

```
1 SELECT * FROM Users
2
```

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Name	Surname	Age	Login	Password	Email
Mike	Tobler	26	SunF	12qwerty	sunF@mail.ru
Nick	Bonner	21	FIQSt	12qweq	BonNick@yandex.ru
Tom	Boyer	40	preSTOM	4test*12	preSTOM@tut.by
Alex	Lord	26	nutt7	2floppynut	lord@gmail.com

1. Вывести имена и имейлы людей старше 30 лет.

SELECT Name, Email FROM Users WHERE Age >30

```
1 CREATE TABLE Users (  
2 Name varchar (4),  
3 Surname varchar (6),  
4 Age int,  
5 Login varchar (7),  
6 Password varchar (10),  
7 Email varchar (20)  
8 );  
9 INSERT INTO Users (Name, Surname, Age, Login, Password, Email)  
10 VALUES ('Nick', 'Brown', 32, 'LogNick', '12pass', 'nick@gmail.com'),  
11 ('Mike', 'Tobler', 26, 'SunF', '12qwerty', 'sunF@mail.ru'),  
12 ('Kate', 'Brown', 28, 'Katitty', '4test*12', 'KateBrown@mail.ru'),  
13 ('Nick', 'Bonner', 21, 'FIQSt', '12qweq', 'BonNick@yandex.ru'),  
14 ('Tom', 'Boyer', 40, 'preSTOM', '4test*12', 'preSTOM@tut.by'),
```

```
1 SELECT Name, Email FROM Users WHERE Age >30
```

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Name	Email
Nick	nick@gmail.com
Tom	preSTOM@tut.by

2. Вывести логины и пароли пользователей, чьи фамилии начинаются на букву В.

SELECT Login, Password FROM Users WHERE Surname LIKE 'B%'

```
4 Age int,  
5 Login varchar (7),  
6 Password varchar (10),  
7 Email varchar (20)  
8 );  
9 INSERT INTO Users (Name, Surname, Age, Login, Password, Email)  
10 VALUES ('Nick', 'Brown', 32, 'LogNick', '12pass', 'nick@gmail.com'),  
11 ('Mike', 'Tobler', 26, 'SunF', '12qwerty', 'sunF@mail.ru'),  
12 ('Kate', 'Brown', 28, 'Katitty', '4test*12', 'KateBrown@mail.ru'),  
13 ('Nick', 'Bonner', 21, 'FIQSt', '12qweq', 'BonNick@yandex.ru'),  
14 ('Tom', 'Boyer', 40, 'preSTOM', '4test*12', 'preSTOM@tut.by'),  
15 ('Alex', 'Lord', 26, 'nutt7', '2floppynut', 'lord@gmail.com');  
16  
17
```

```
1 SELECT Login, Password FROM Users WHERE Surname LIKE 'B%'
```

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Login	Password
LogNick	12pass
Katitty	4test*12
FIQSt	12qweq
preSTOM	4test*12

3. Вывести пароли, которые заканчиваются на 12.

SELECT Password FROM Users WHERE Password LIKE '%12'

```
4 Age int,  
5 Login varchar (7),  
6 Password varchar (10),  
7 Email varchar (20)  
8 );  
9 INSERT INTO Users (Name, Surname, Age, Login, Password, Email)  
10 VALUES ('Nick', 'Brown', 32, 'LogNick', '12pass', 'nick@gmail.com'),  
11 ('Mike', 'Tobler', 26, 'SunF', '12qwerty', 'sunF@mail.ru'),  
12 ('Kate', 'Brown', 28, 'Katitty', '4test*12', 'KateBrown@mail.ru'),  
13 ('Nick', 'Bonner', 21, 'FIQSt', '12qweq', 'BonNick@yandex.ru'),  
14 ('Tom', 'Boyer', 40, 'preSTOM', '4test*12', 'preSTOM@tut.by'),  
15 ('Alex', 'Lord', 26, 'nutt7', '2floppynut', 'lord@gmail.com');  
16  
17
```

```
1 SELECT Password FROM Users WHERE Password LIKE '%12'
```

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Password
4test*12
4test*12

4. Вывести все записи, где имейл содержит nick.

SELECT * FROM Users WHERE Email LIKE '%nick%'

```
4 Age int,
5 Login varchar (7),
6 Password varchar (10),
7 Email varchar (20)
8 );
9 INSERT INTO Users (Name, Surname, Age, Login, Password, Email)
10 VALUES ('Nick', 'Brown', 32, 'LogNick', '12pass', 'nick@gmail.com'),
11 ('Mike', 'Tobler', 26, 'SunF', '12qwerty', 'sunF@mail.ru'),
12 ('Kate', 'Brown', 28, 'Katitty', '4test*12', 'KateBrown@mail.ru'),
13 ('Nick', 'Bonner', 21, 'FIQSt', '12qweq', 'BonNick@yandex.ru'),
14 ('Tom', 'Boyer', 40, 'preSTOM', '4test*12', 'preSTOM@tut.by'),
15 ('Alex', 'Lord', 26, 'nutt7', '2floppynut', 'lord@gmail.com');
16
17
```

```
1 SELECT * FROM Users WHERE Email LIKE '%nick%'
```

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Name	Surname	Age	Login	Password	Email
Nick	Brown	32	LogNick	12pass	nick@gmail.com
Nick	Bonner	21	FIQSt	12qweq	BonNick@yandex.ru

5. Вывести уникальный возраст.

SELECT DISTINCT Age FROM Users

```
4 Age int,
5 Login varchar (7),
6 Password varchar (10),
7 Email varchar (20)
8 );
9 INSERT INTO Users (Name, Surname, Age, Login, Password, Email)
10 VALUES ('Nick', 'Brown', 32, 'LogNick', '12pass', 'nick@gmail.com'),
11 ('Mike', 'Tobler', 26, 'SunF', '12qwerty', 'sunF@mail.ru'),
12 ('Kate', 'Brown', 28, 'Katitty', '4test*12', 'KateBrown@mail.ru'),
13 ('Nick', 'Bonner', 21, 'FIQSt', '12qweq', 'BonNick@yandex.ru'),
14 ('Tom', 'Boyer', 40, 'preSTOM', '4test*12', 'preSTOM@tut.by'),
15 ('Alex', 'Lord', 26, 'nutt7', '2floppynut', 'lord@gmail.com');
16
17
```

```
1 SELECT DISTINCT Age FROM Users
```

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Age
32
26
28
21
40

6. Вывести имена, логины, пароли, 이메일ы и отсортировать результаты по убыванию по Name.

SELECT Name, Login, Password, Email FROM Users ORDER BY Name DESC

```
4 Age int,
5 Login varchar (7),
6 Password varchar (10),
7 Email varchar (20)
8 );
9 INSERT INTO Users (Name, Surname, Age, Login, Password, Email)
10 VALUES ('Nick', 'Brown', 32, 'LogNick', '12pass', 'nick@gmail.com'),
11 ('Mike', 'Tobler', 26, 'SunF', '12qwerty', 'sunF@mail.ru'),
12 ('Kate', 'Brown', 28, 'Katitty', '4test*12', 'KateBrown@mail.ru'),
13 ('Nick', 'Bonner', 21, 'FIQSt', '12qweq', 'BonNick@yandex.ru'),
14 ('Tom', 'Boyer', 40, 'preSTOM', '4test*12', 'preSTOM@tut.by'),
15 ('Alex', 'Lord', 26, 'nutt7', '2floppynut', 'lord@gmail.com');
16
17
```

```
1 SELECT Name, Login, Password, Email FROM Users ORDER BY Name DESC
```

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Name	Login	Password	Email
Tom	preSTOM	4test*12	preSTOM@tut.by
Nick	LogNick	12pass	nick@gmail.com
Nick	FIQSt	12qweq	BonNick@yandex.ru
Mike	SunF	12qwerty	sunF@mail.ru
Kate	Katitty	4test*12	KateBrown@mail.ru
Alex	nutt7	2floppynut	lord@gmail.com

7. Вывести всю информацию о Nick Bonner.

SELECT *

FROM Users

WHERE Name LIKE 'Nick' AND Surname LIKE 'Bonner'

```
4 Age int,
5 Login varchar (7),
6 Password varchar (10),
7 Email varchar (20)
8 );
9 INSERT INTO Users (Name, Surname, Age, Login, Password, Email)
10 VALUES ('Nick', 'Brown', 32, 'LogNick', '12pass', 'nick@gmail.com'),
11 ('Mike', 'Tobler', 26, 'SunF', '12qwerty', 'sunF@mail.ru'),
12 ('Kate', 'Brown', 28, 'Katitty', '4test*12', 'KateBrown@mail.ru'),
13 ('Nick', 'Bonner', 21, 'FIQSt', '12qweq', 'BonNick@yandex.ru'),
14 ('Tom', 'Boyer', 40, 'preSTOM', '4test*12', 'preSTOM@tut.by'),
15 ('Alex', 'Lord', 26, 'nutt7', '2floppynut', 'lord@gmail.com');
16
17
```

```
1 SELECT *
2 FROM Users
3 WHERE Name LIKE 'Nick' AND Surname LIKE 'Bonner'
```

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Name	Surname	Age	Login	Password	Email
Nick	Bonner	21	FIQSt	12qweq	BonNick@yandex.ru

SQL Task (1)

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

SELECT * FROM Customers WHERE City LIKE 'Berlin'

SQL Statement:

[Get your own SQL server](#)

```
SELECT * FROM Customers WHERE City LIKE 'Berlin'
```

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

[Run SQL »](#)

Result:

Number of Records: 1

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

2. Select CustomerName, City where the CustomerID column has the value 32.

SELECT CustomerName, City FROM Customers WHERE CustomerID = 32

SQL Statement:

```
SELECT CustomerName, City FROM Customers WHERE CustomerID = 32
```

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

[Run SQL »](#)

Result:

Number of Records: 1

CustomerName	City
Great Lakes Food Market	Eugene

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

SELECT * FROM Customers WHERE City LIKE 'Berlin' AND PostalCode = '12209'

SQL Statement:

[Get your own SQL server](#)

```
SELECT * FROM Customers WHERE City LIKE 'Berlin' AND PostalCode = '12209'
```

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

[Run SQL >](#)

Result:

Number of Records: 1

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

4. Select 3 first rows of the CustomerName, City and Country columns

SELECT CustomerName, City, Country FROM Customers LIMIT 3

SQL Statement:

[Get your own SQL server](#)

```
SELECT CustomerName, City, Country FROM Customers LIMIT 3
```

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

[Run SQL >](#)

Result:

Number of Records: 3

CustomerName	City	Country
Alfreds Futterkiste	Berlin	Germany
Ana Trujillo Emparedados y helados	México D.F.	Mexico
Antonio Moreno Taquería	México D.F.	Mexico

5. Select all records where the `City` column has the value 'Berlin', and also the records where the `City` column has the value 'London'

SELECT * FROM Customers WHERE City IN ('Berlin','London')

SQL Statement:

[Get your own SQL server](#)

```
SELECT * FROM Customers WHERE City IN ('Berlin','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	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
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

6. Select `CustomerName`, `Address`, `City` from the `Customers` table, sort the result alphabetically by the column `City`.

SELECT CustomerName, Address, City FROM Customers ORDER BY City

SQL Statement:

[Get your own SQL server](#)

```
SELECT CustomerName, Address, City FROM Customers ORDER BY City
```

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

[Run SQL »](#)

Result:

Number of Records: 91

CustomerName	Address	City
Drachenblut Delikatessend	Walserweg 21	Aachen
Rattlesnake Canyon Grocery	2817 Milton Dr.	Albuquerque
Old World Delicatessen	2743 Bering St.	Anchorage
Galería del gastrónomo	Rambla de Cataluña, 23	Barcelona
LILA-Supermercado	Carrera 52 con Ave. Bolívar #65-98 Llano Largo	Barquisimeto
Magazzini Alimentari Riuniti	Via Ludovico il Moro 22	Bergamo
Alfreds Futterkiste	Obere Str. 57	Berlin
Chop-suey Chinese	Hauptstr. 29	Bern
Save-a-lot Markets	187 Suffolk Ln.	Boise
Königlich Essen	Maubelstr. 90	Brandenburg
Maison Dewey	Rue Joseph-Bens 532	Bruxelles

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

SELECT * FROM Customers ORDER BY Country

SQL Statement:

[Get your own SQL server](#)

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

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
59	Piccolo und mehr	Georg Pipp	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
15	Comércio Mineiro	Pedro Afonso	Av. dos Lusíadas, 23	São Paulo	05432-043	Brazil

SELECT * FROM Customers ORDER BY City

SQL Statement:

[Get your own SQL server](#)

```
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	PostalCode	Country
17	Drachenblut Delikatessend	Sven Ottlieb	Walserweg 21	Aachen	52066	Germany
65	Rattlesnake Canyon Grocery	Paula Wilson	2817 Milton Dr.	Albuquerque	87110	USA
55	Old World Delicatessen	Rene Phillips	2743 Bering St.	Anchorage	99508	USA
29	Galería del gastrónomo	Eduardo Saavedra	Rambla de Cataluña, 23	Barcelona	08022	Spain
46	LILA-Supermercado	Carlos González	Carrera 52 con Ave. Bolívar #65-98 Llano Largo	Barquisimeto	3508	Venezuela
49	Magazzini Alimentari Riuniti	Giovanni Rovelli	Via Ludovico il Moro 22	Bergamo	24100	Italy
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
14	Chop-suey Chinese	Yang Wang	Hauptstr. 29	Bern	3012	Switzerland
71	Save-a-lot Markets	Jose Pavarotti	187 Suffolk Ln.	Boise	83720	USA
39	Königlich Essen	Philip Cramer	Maubelstr. 90	Brandenburg	14776	Germany
50	Maison Dewey	Catherine Dewey	Rue Joseph-Bens 532	Bruxelles	B-1180	Belgium

8. Select all records from the `Customers` where the `PostalCode` column is empty.

SELECT * FROM Customers WHERE PostalCode IS NULL OR PostalCode = ''

SQL Statement: [Get your own SQL server](#)

```
SELECT * FROM Customers WHERE PostalCode IS NULL OR PostalCode = ''
```

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

Run SQL »

Result:

Number of Records: 1

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
37	Hungry Owl All-Night Grocers	Patricia McKenna	8 Johnstown Road	Cork		Ireland

9. Select CustomerID, CustomerName, PostalCode from the `Customers` where the `PostalCode` column is NOT empty.

SELECT CustomerID, CustomerName, PostalCode FROM Customers WHERE PostalCode != '' OR PostalCode != NULL

SQL Statement: [Get your own SQL server](#)

```
SELECT CustomerID, CustomerName, PostalCode FROM Customers WHERE PostalCode != '' OR PostalCode != NULL
```

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

Run SQL »

Result:

Number of Records: 90

CustomerID	CustomerName	PostalCode
1	Alfreds Futterkiste	12209
2	Ana Trujillo Emparedados y helados	05021
3	Antonio Moreno Taquería	05023
4	Around the Horn	WA1 1DP
5	Berglunds snabbköp	S-958 22
6	Blauer See Delikatessen	68306
7	Blondel père et fils	67000
8	Bólide Comidas preparadas	28023

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

SELECT DISTINCT Country FROM Customers

SQL Statement:

SELECT DISTINCT Country FROM Customers

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

Run SQL »

Result:

Number of Records: 21

Country
Germany
Mexico
UK
Sweden
France
Spain
Canada
Argentina

11. Select all records where the value of the City column starts with the letter "a".

SELECT * FROM Customers WHERE City LIKE 'a%'

SQL Statement:

SELECT * FROM Customers WHERE City LIKE 'a%'

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

Run SQL »

Result:

Number of Records: 3

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
17	Drachenblut Delikatessend	Sven Ottlieb	Walsertweg 21	Aachen	52066	Germany
55	Old World Delicatessen	Rene Phillips	2743 Bering St.	Anchorage	99508	USA
65	Rattlesnake Canyon Grocery	Paula Wilson	2817 Milton Dr.	Albuquerque	87110	USA

12. Select all records where the value of the City column contains the letter "a" and sort by City in descending order

SELECT * FROM Customers WHERE City LIKE '%a%'
ORDER BY City DESC

SQL Statement: [Get your own SQL server](#)

```
SELECT * FROM Customers WHERE City LIKE '%a%'
ORDER BY City DESC
```

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

[Run SQL »](#)

Result:

Number of Records: 55

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
43	Lazy K Kountry Store	John Steel	12 Orchestra Terrace	Walla Walla	99362	USA
91	Wolski	Zbyszek	ul. Filtrowa 68	Walla	01-012	Poland
40	La corne d'abondance	Daniel Tonini	67, avenue de l'Europe	Versailles	78000	France
42	Laughing Bacchus Wine Cellars	Yoshi Tannamuri	1900 Oak St.	Vancouver	V3F 2K1	Canada
10	Bottom-Dollar Marketse	Elizabeth Lincoln	23 Tsawassen Blvd.	Tsawassen	T2F 8M4	Canada
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
62	Queen Cozinha	Lúcia Carvalho	Alameda dos Canários, 891	São Paulo	05487-020	Brazil
81	Tradição Hipermercados	Anabela Domingues	Av. Inês de Castro, 414	São Paulo	05634-030	Brazil
86	Die Wandernde Kuh	Rita Müller	Adenauerallee 900	Stuttgart	70563	Germany

13. Select all records where the value of the City column starts with letter "a" and ends with the letter "b".

SELECT * FROM Customers WHERE City LIKE 'a%b'

SQL Statement:

```
SELECT * FROM Customers WHERE City LIKE 'a%b'
```

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

[Run SQL »](#)

Result:

No result.

14. Select all records where the value of the City column does NOT start with the letter "a" and where Country is not Germany.

SELECT * FROM Customers WHERE City NOT LIKE 'a%' AND Country NOT LIKE 'Germany'

SQL Statement:

[Get your own SQL server](#)

```
SELECT * FROM Customers WHERE City NOT LIKE 'a%' AND Country NOT LIKE 'Germany'
```

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

[Run SQL >](#)

Result:

Number of Records: 78

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
8	Bóldo 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	Cactus Comidas para llevar	Patricio Simpson	Cerrito 333	Buenos Aires	1010	Argentina
13	Centro comercial Moctezuma	Francisco Chang	Sierras de Granada 9993	México D.F.	05022	Mexico

15. Use the IN operator to select all the records where Country is either "Norway" or "France".

SELECT * FROM Customers WHERE Country IN ('Norway', 'France')

SQL Statement:

[Get your own SQL server](#)

```
SELECT * FROM Customers WHERE Country IN ('Norway', 'France')
```

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

[Run SQL >](#)

Result:

Number of Records: 12

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
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
18	Du monde entier	Janine Labrune	67, rue des Cinquante Otages	Nantes	44000	France
23	Folies gourmandes	Martine Rancé	184, chaussée de Tournai	Lille	59000	France
26	France restauration	Carine Schmitt	54, rue Royale	Nantes	44000	France
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
57	Paris spécialités	Marie Bertrand	265, boulevard Charonne	Paris	75012	France
70	Santé Gourmet	Jonas Bergulfsen	Erling Skakkes gate 78	Stavern	4110	Norway
74	Spécialités du monde	Dominique Perrier	25, rue Lauriston	Paris	75016	France
84	Victuailles en stock	Mary Saveley	2, rue du Commerce	Lyon	69004	France

16. Select all records from the City of "Bern", "Berlin", "London" where IDs are greater than 10, but less than 30

SELECT * FROM Customers WHERE City IN ('Bern', 'Berlin', 'London') AND CustomerID > 10 AND CustomerID <30

SQL Statement:

[Get your own SQL server](#)

```
SELECT * FROM Customers WHERE City IN ('Bern', 'Berlin', 'London')
AND CustomerID > 10 AND CustomerID <30
```

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

[Run SQL »](#)

Result:

Number of Records: 4

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
11	B's Beverages	Victoria Ashworth	Fauntleroy Circus	London	EC2 5NT	UK
14	Chop-suey Chinese	Yang Wang	Hauptstr. 29	Bern	3012	Switzerland
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

17. Update the City column of all records in the Customers table.

UPDATE Customers SET City = 'Minsk'

SQL Statement:

```
UPDATE Customers SET City = 'Minsk'
```

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

[Run SQL »](#)

Result:

You have made changes to the database. Rows affected: 91

Проверка

SQL Statement:

```
SELECT * FROM [Customers]
```

Get your own SQL server

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	Minsk	12209	Germany
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	Minsk	05021	Mexico
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	Minsk	05023	Mexico
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	Minsk	WA1 1DP	UK
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Minsk	S-958 22	Sweden
6	Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Minsk	68306	Germany
7	Blondel père et fils	Frédérique Citeaux	24, place Kléber	Minsk	67000	France
8	Bólido Comidas preparadas	Martin Sommer	C/ Araquil, 67	Minsk	28023	Spain

18. Set the value of the City columns to 'Oslo', but only the ones where the Country column has the value "Norway".

UPDATE Customers SET City = 'Oslo' WHERE Country = 'Norway'

SQL Statement:

```
UPDATE Customers SET City = 'Oslo' WHERE Country = 'Norway'
```

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

Run SQL »

Result:

You have made changes to the database. Rows affected: 1

Проверка

SQL Statement: [Get your own SQL server](#)

```
SELECT * FROM Customers WHERE Country LIKE 'Norway'
```

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

[Run SQL »](#)

Result:

Number of Records: 1

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
70	Santé Gourmet	Jonas Bergulfsen	Erling Skakkes gate 78	Oslo	4110	Norway

19. Update the `City` value *and* the `Country` value for the Customer with ID = 32.

UPDATE Customers SET City = 'Minsk', Country = 'Belarus' WHERE CustomerID = 32

SQL Statement:

```
UPDATE Customers SET City = 'Minsk', Country = 'Belarus' WHERE CustomerID = 32
```

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

[Run SQL »](#)

Result:

You have made changes to the database. Rows affected: 1

Проверка

SQL Statement: [Get your own SQL server](#)

```
SELECT * FROM Customers WHERE CustomerID = 32
```

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

[Run SQL »](#)

Result:

Number of Records: 1

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
32	Great Lakes Food Market	Howard Snyder	2732 Baker Blvd.	Minsk	97403	Belarus

20. Delete all the records from the Customers table where the Country value is 'Norway'.

DELETE FROM Customers WHERE Country LIKE 'Norway'

SQL Statement:

```
DELETE FROM Customers WHERE Country LIKE 'Norway'
```

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

Run SQL »

Result:

You have made changes to the database. Rows affected: 1

Проверка



SQL Statement:

```
SELECT * FROM Customers WHERE Country LIKE 'Norway'
```

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

Run SQL »

Result:

No result.