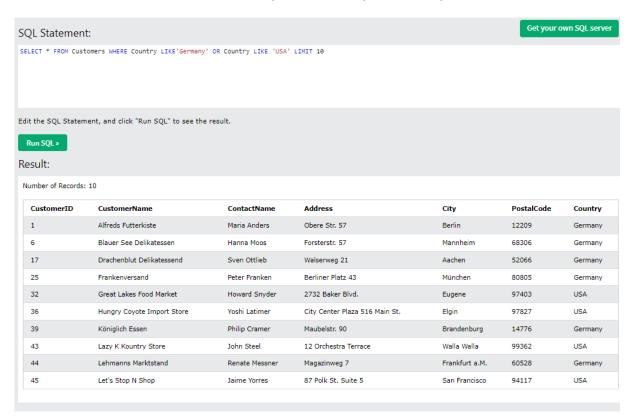
Задание. SQL запросы

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

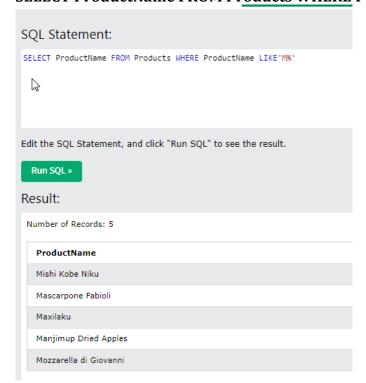


Задание 2

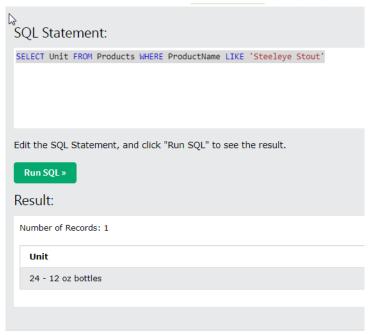
Запросы для таблицы Products:

1. Выбрать все продукты, начинающиеся на букву М.

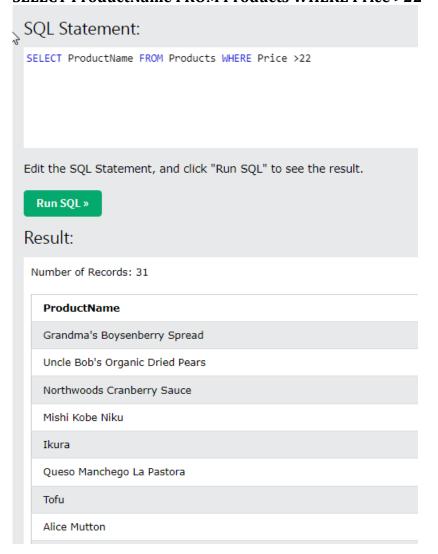
SELECT ProductName FROM Products WHERE ProductName LIKE 'M%'



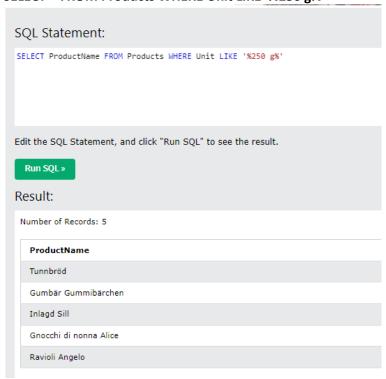
2. Вывести характеристику упаковки (unit) для товара Steeleye Stout. SELECT Unit FROM Products WHERE ProductName LIKE 'Steeleye Stout'



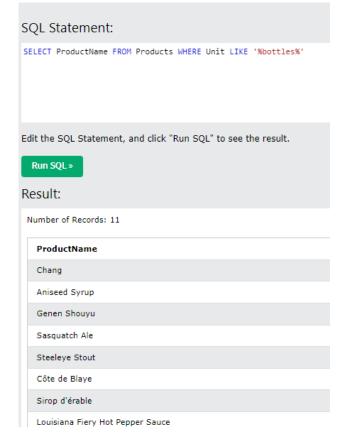
3. Вывести названия товаров, цена которых выше 22. SELECT ProductName FROM Products WHERE Price >22



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

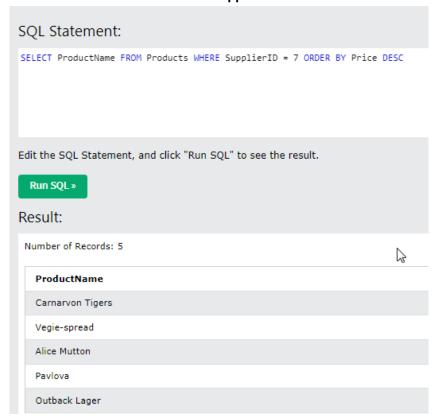


5. Вывести товары, упаковка которых состоит из «bottles» SELECT * FROM Products WHERE Unit LIKE '%bottles%'



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

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



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.

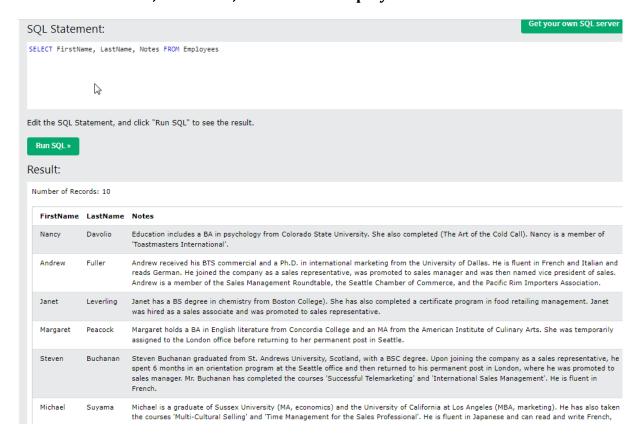
SELECT * FROM character WHERE level > 45 AND race LIKE 'dwarf'

Задание 4

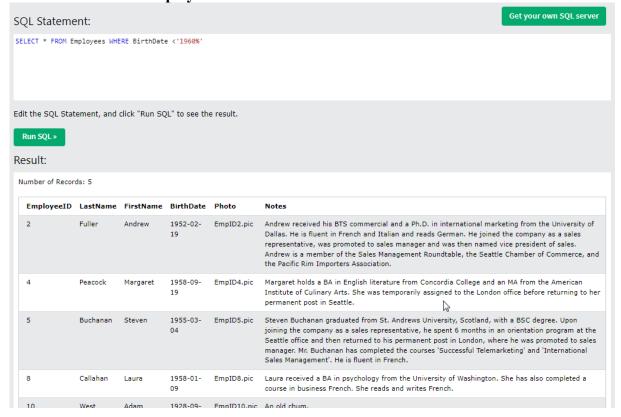
Запросы для таблицы Employees:

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

SELECT FirstName, LastName, Notes FROM Employees



2. Вывести информацию о работниках старше 1960 года. SELECT * FROM Employees WHERE BirthDate <'1960%'

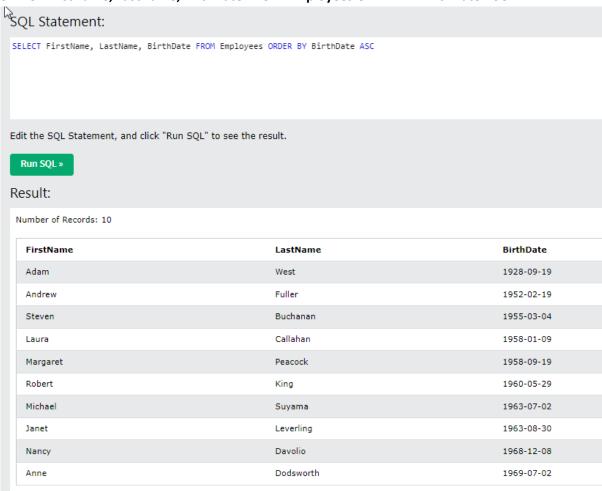


3. Вывести даты рождения сотрудников, чьи имена начинаются на букву А. SELECT BirthDate FROM Employees WHERE FirstName LIKE 'A%'



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



Tom

Alex

Boyer

Lord

```
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', 'FlQSt', '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, 'FlQSt', '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 (
                                                                        1 SELECT*FROM Users
   2 Name varchar (4),
   3 Surname varchar (6),
   4 Age int,
   5 Login varchar (7),
   6 Password varchar (10).
   7 Email varchar (20)
   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, 'FlQSt', '12qweq', 'BonNick@yandex.ru'),
  14 ('Tom', 'Boyer', 40, 'preSTOM', '4test*12', 'preSTOM@tut.by'),
                                                                        Запустить SQL▶
                                                                                          Edit Fullscreen 🥕
   Схема сборки≛
                  Edit Fullscreen 🦯
                                 Browser -li±
  Name
                 Surname
                                       Age
                                                   Login
                                                                        Password
                                                                                                Email
  Nick
                 Brown
                                       32
                                                   LogNick
                                                                        12pass
                                                                                                nick@gmail.com
  Mike
                 Tobler
                                       26
                                                   SunF
                                                                        12qwerty
                                                                                               sunF@mail.ru
                                                                        4test*12
                 Brown
                                       28
                                                   Katitty
                                                                                                KateBrown@mail.ru
  Nick
                 Bonner
                                       21
                                                   FIQSt
                                                                        12qweq
                                                                                                BonNick@yandex.ru
```

preSTOM

nutt7

4test*12

2floppynut

preSTOM@tut.bv

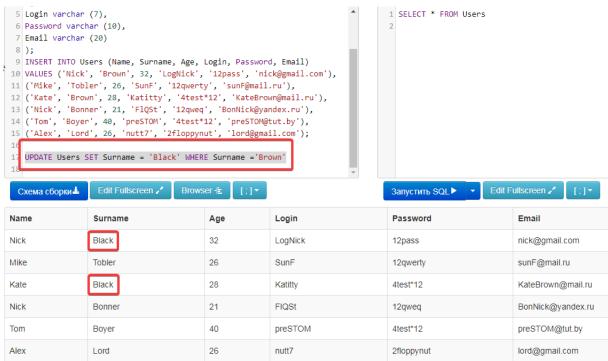
lord@gmail.com

40

26

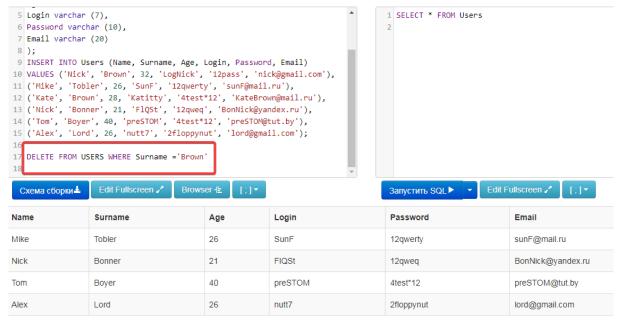
Заменить фамилию Brown на Black

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



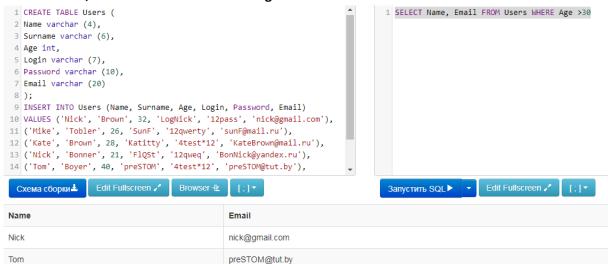
Удалить пользователей с фамилией Brown

DELETE FROM USERS WHERE Surname ='Brown'



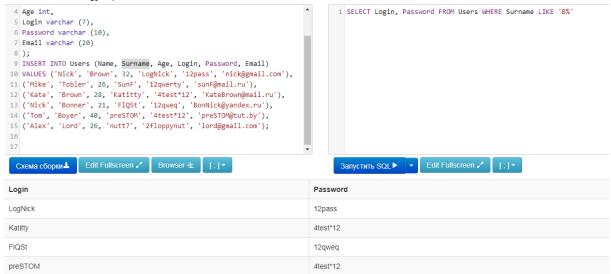
1. Вывести имена и имейлы людей старше 30 лет.

SELECT Name, Email FROM Users WHERE Age >30



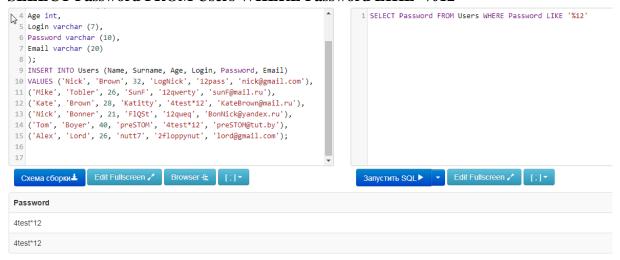
2. Вывести логины и пароли пользователей, чьи фамилии начинаются на букву В.

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

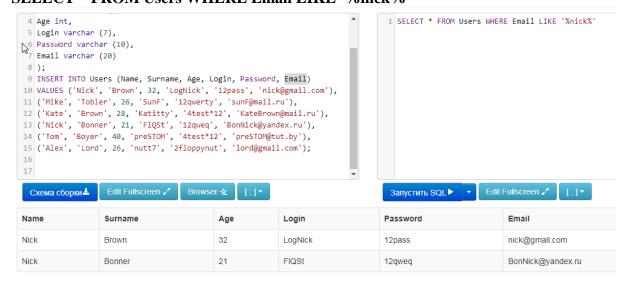


3. Вывести пароли, которые заканчиваются на 12.

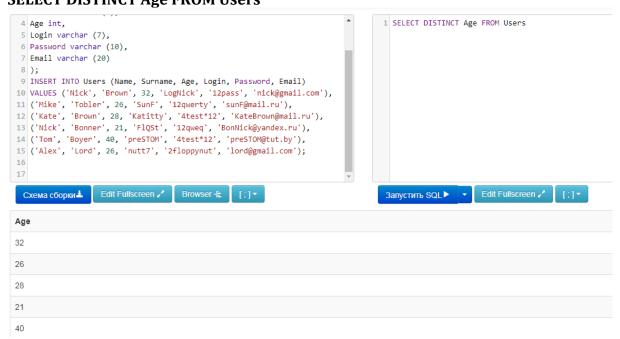
SELECT Password FROM Users WHERE Password LIKE '%12'



4. Вывести все записи, где имейл содержит nick. **SELECT * FROM Users WHERE Email LIKE '%nick%'**

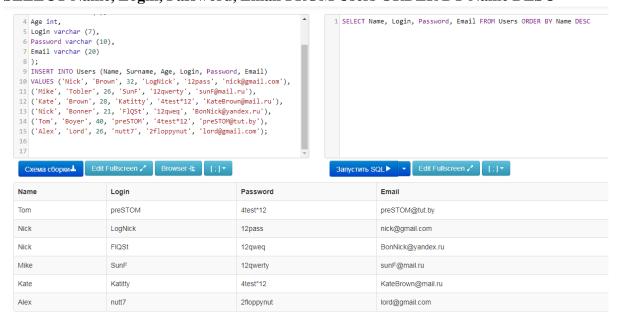


5. Вывести уникальный возраст. **SELECT DISTINCT Age FROM Users**



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

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



7. Вывести всю информацию о Nick Bonner.

SELECT *

FROM Users

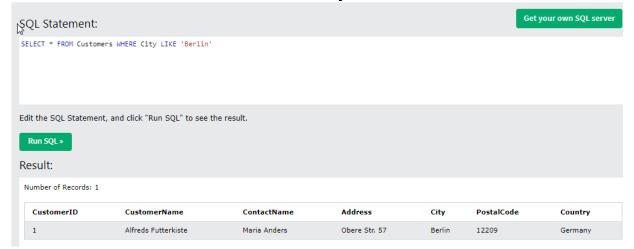
WHERE Name LIKE 'Nick' AND Surname LIKE 'Bonner'



SQL Task (1)

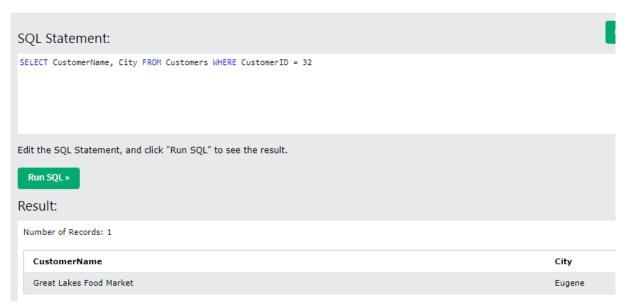
1. Select all records where the City column has the value "Berlin".

SELECT * FROM Customers WHERE City LIKE 'Berlin'



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

SELECT CustomerName, City FROM Customers WHERE CustomerID = 32

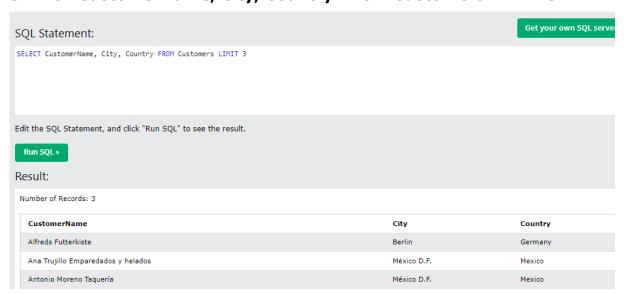


3. Select all records where the City column has the value 'Berlin' and the PostalCode column has the value 12209.

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

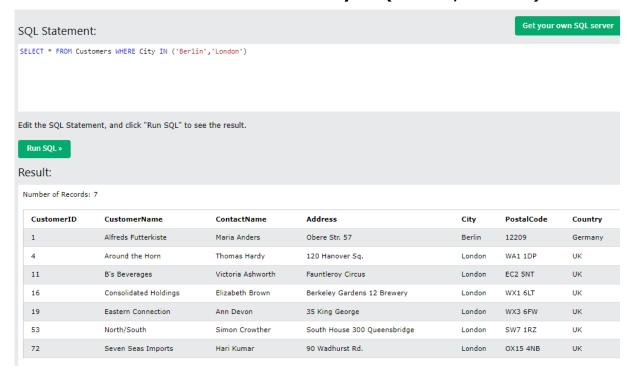


4. Select 3 first rows of the CustomerName, City and Country columns **SELECT CustomerName, City, Country FROM Customers LIMIT 3**



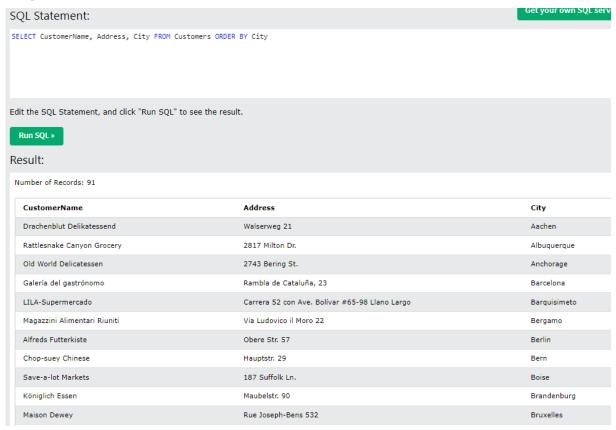
5. Select all records where the City column has the value 'Berlin', and also the records where the City column has the value 'London'

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



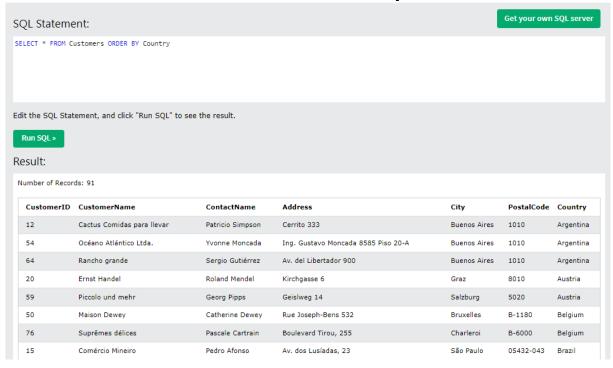
6. Select CustomerName, Address, City from the Customers table, sort the result alphabetically by the column City.

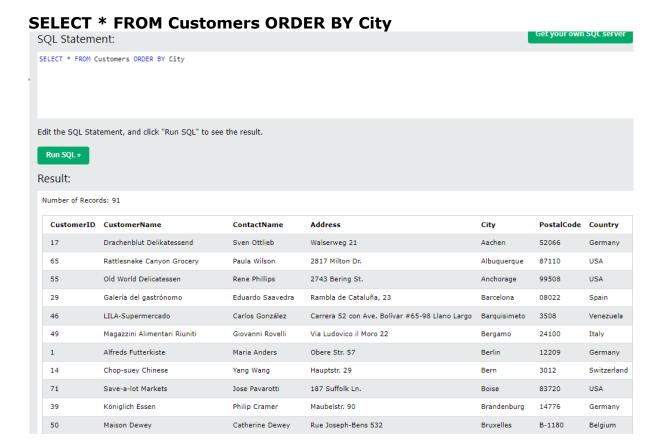
SELECT CustomerName, Address, City FROM Customers ORDER BY City



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

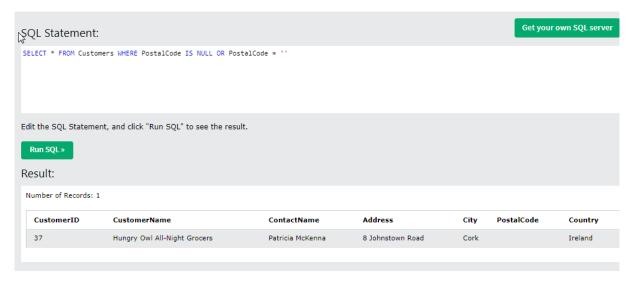
SELECT * FROM Customers ORDER BY Country





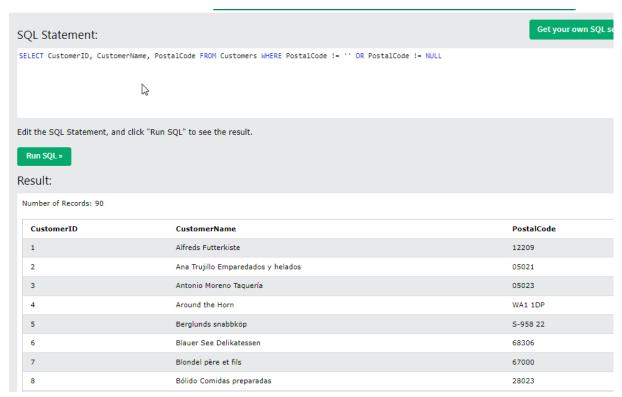
8. Select all records from the Customers where the PostalCode column is empty.

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



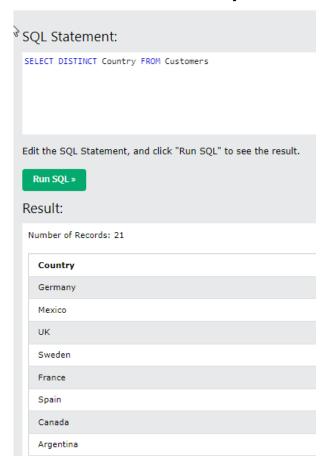
9. Select CustomerID, CustomerName, PostalCode from the Customers where the PostalCode column is NOT empty.

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



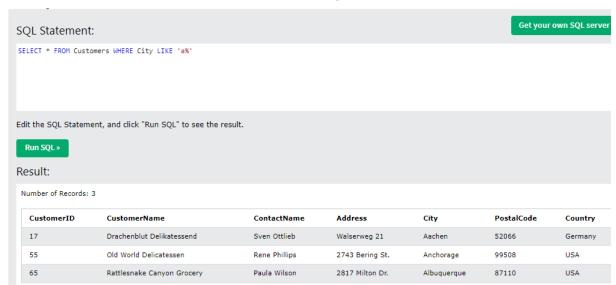
10. Select all the different values from the Country column in the Customers table.

SELECT DISTINCT Country FROM Customers



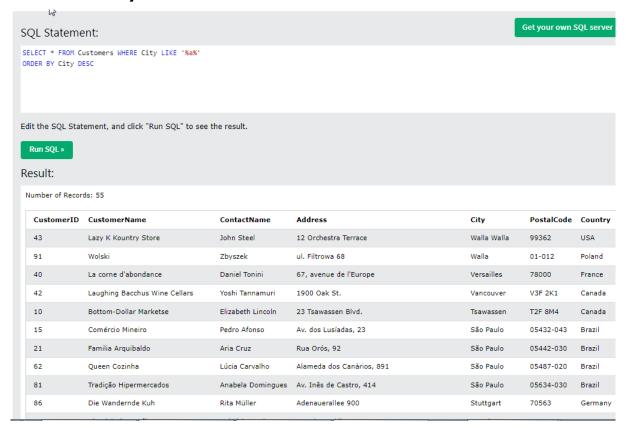
11. Select all records where the value of the City column starts with the letter "a".

SELECT * FROM Customers WHERE City LIKE 'a%'



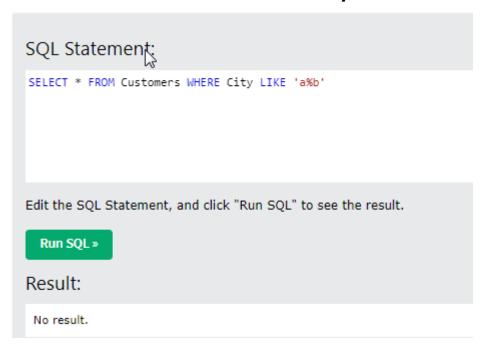
12. Select all records where the value of the City column contains the letter "a" and sort by City in descending order

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



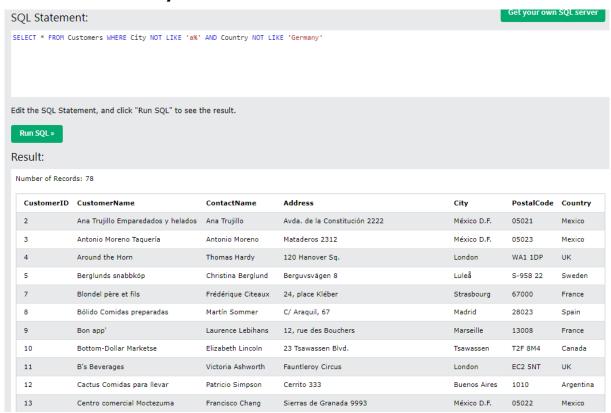
13. Select all records where the value of the City column starts with letter "a" and ends with the letter "b".

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



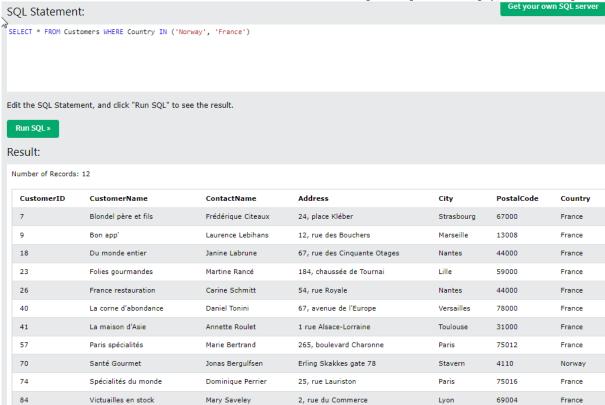
14. Select all records where the value of the City column does NOT start with the letter "a" and where Country is not Germany.

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



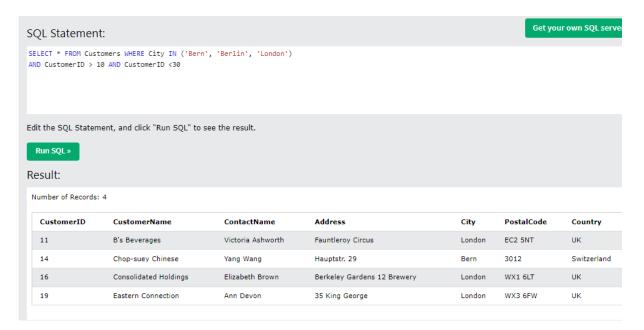
15. Use the IN operator to select all the records where Country is either "Norway" or "France".

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



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

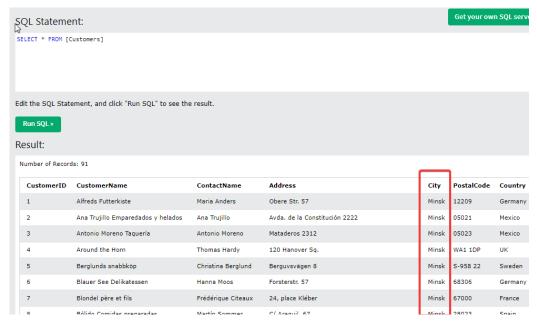


17. Update the City column of all records in the Customers table.

UPDATE Customers SET City = 'Minsk'

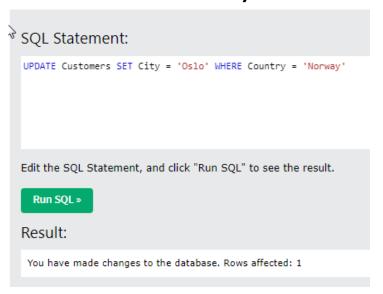


Проверка

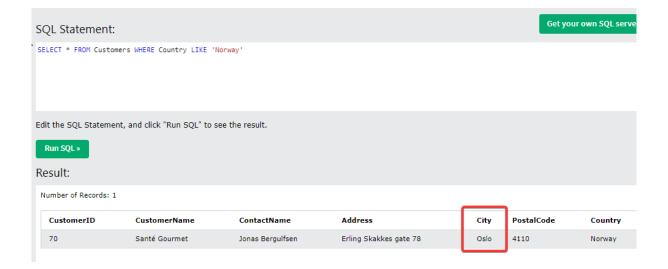


18. Set the value of the City columns to 'Oslo', but only the ones where the Country column has the value "Norway".

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



Проверка

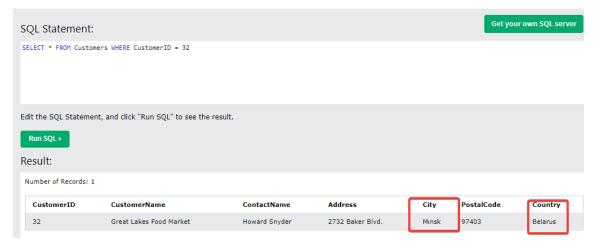


19. Update the City value and the Country value for the Customer with ID = 32.

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



Проверка



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

DELETE FROM Customers WHERE Country LIKE 'Norway'



Проверка

