

## 5. SQL basics. Изучить основы SQL, прислать ответы на шесть вопросов

База данных клиентов:

[http://www.w3schools.com/sql/trysql.asp?filename=trysql\\_select\\_all](http://www.w3schools.com/sql/trysql.asp?filename=trysql_select_all)

Задание: Написать запросы, покрывающие следующие требования

1. Посмотреть, сколько клиентов из Германии (SELECT, WHERE, COUNT).

```
select * from Customers
WHERE Country = 'Germany'
```

select \* from Customers  
WHERE Country = 'Germany'

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

Run SQL »

Result:

Number of Records: 11

| 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        | Walserweg 21       | Aachen         | 52066      | Germany |
| 25         | Frankenversand            | Peter Franken       | Berliner Platz 43  | München        | 80805      | Germany |
| 39         | Königlich Essen           | Philip Cramer       | Maubelstr. 90      | Brandenburg    | 14776      | Germany |
| 44         | Lehmanns Marktstand       | Renate Messner      | Magazinweg 7       | Frankfurt a.M. | 60528      | Germany |
| 52         | Morgenstern Gesundkost    | Alexander Feuer     | Heerstr. 22        | Leipzig        | 04179      | Germany |
| 56         | Ottlies Käseladen         | Henriette Pfalzheim | Mehrheimerstr. 369 | Köln           | 50739      | Germany |
| 63         | QUICK-Stop                | Horst Kloss         | Taucherstraße 10   | Cunewalde      | 01307      | Germany |
| 79         | Toms Spezialitäten        | Karin Josephs       | Luisenstr. 48      | Münster        | 44087      | Germany |
| 86         | Die Wandernde Kuh         | Rita Müller         | Adenauerallee 900  | Stuttgart      | 70563      | Germany |

Или

```
SELECT COUNT (CustomerName)
FROM Customers
WHERE Country="Germany"
```

Result:

Number of Records: 1

| COUNT (CustomerName) |
|----------------------|
| 11                   |

2. Посмотреть, имена скольких клиентов оканчиваются на 'e' (LIKE).

```
select * from Customers
WHERE CustomerName LIKE '%e'
```

```
select * from Customers
WHERE CustomerName LIKE '%e'
```

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

[Run SQL »](#)

Result:

Number of Records: 14

| CustomerID | CustomerName               | ContactName          | Address                        | City         | PostalCode | Country     |
|------------|----------------------------|----------------------|--------------------------------|--------------|------------|-------------|
| 1          | Alfreds Futterkiste        | Maria Anders         | Obere Str. 57                  | Berlin       | 12209      | Germany     |
| 10         | Bottom-Dollar Marketse     | Elizabeth Lincoln    | 23 Tsawassen Blvd.             | Tsawassen    | T2F 8M4    | Canada      |
| 14         | Chop-suey Chinese          | Yang Wang            | Hauptstr. 29                   | Bern         | 3012       | Switzerland |
| 33         | GROSELLA-Restaurante       | Manuel Pereira       | 5ª Ave. Los Palos Grandes      | Caracas      | 1081       | Venezuela   |
| 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      |
| 41         | La maison d'Asie           | Annette Roulet       | 1 rue Alsace-Lorraine          | Toulouse     | 31000      | France      |
| 43         | Lazy K Kountry Store       | John Steel           | 12 Orchestra Terrace           | Walla Walla  | 99362      | USA         |
| 51         | Mère Paillarde             | Jean Fresnière       | 43 rue St. Laurent             | Montréal     | H1J 1C3    | Canada      |
| 64         | Rancho grande              | Sergio Gutiérrez     | Av. del Libertador 900         | Buenos Aires | 1010       | Argentina   |
| 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         |
| 77         | The Big Cheese             | Liz Nixon            | 89 Jefferson Way Suite 2       | Portland     | 97201      | USA         |
| 80         | Tortuga Restaurante        | Miguel Angel Paolino | Avda. Azteca 123               | México D.F.  | 05033      | Mexico      |

3. Прислать запрос и скриншот с Вашим именем, вставленным в таблицу Customers (INSERT, SELECT).

insert into Customers (CustomerName) values ('Evgeniy')

[Get your own SQL server](#)

SQL Statement:

```
select * from Customers
where CustomerName='Evgeniy'
```

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 |
|------------|--------------|-------------|---------|------|------------|---------|
| 92         | Evgeniy      | null        | null    | null | null       | null    |

4. Изменить собственное имя, вставленное в таблицу Customers (UPDATE, SELECT), сделать скриншот и прислать запрос.

UPDATE Customers

SET CustomerName = 'Evgeniy Chernov', ContactName = 'Evgeniy Chernov',  
Address = 'N.El` covka', City= 'Novosibirsk', Country = 'Russian Federation'  
Where CustomerID='92'

SQL Statement:

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```
select * from Customers  
where CustomerName='Evgeniy Chernov'
```

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            |
|------------|-----------------|-----------------|-------------|-------------|------------|--------------------|
| 92         | Evgeniy Chernov | Evgeniy Chernov | N.El` covka | Novosibirsk | null       | Russian Federation |

5. Удалить всех клиентов из города Nantes. Прислать запрос и результат (DELETE).

DELETE FROM Customers  
WHERE City='Nantes'

SQL Statement:

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```
select * from Customers  
where City='Nantes'
```

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

Run SQL »

Result:

No result.

6. Прислать номера заказов (OrderID), оформленных для клиентов работником

с именем Steven (FirstName) (INNER JOIN).

```
SELECT Orders.OrderID, Employees.FirstName
```

```
FROM Orders
```

```
INNER JOIN Employees ON Orders.EmployeeID = Employees.EmployeeID
```

```
WHERE FirstName='Steven'
```

```
SELECT Orders.OrderID, Employees.FirstName
FROM Orders
INNER JOIN Employees ON Orders.EmployeeID = Employees.EmployeeID
WHERE FirstName='Steven'
```

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

Run SQL »

Result:

Number of Records: 11

| OrderID | FirstName |
|---------|-----------|
| 10248   | Steven    |
| 10254   | Steven    |
| 10269   | Steven    |
| 10297   | Steven    |
| 10320   | Steven    |
| 10333   | Steven    |
| 10358   | Steven    |
| 10359   | Steven    |
| 10372   | Steven    |
| 10378   | Steven    |
| 10397   | Steven    |

Все запросы и ответы записать в файл отчёта