

## Тема 19. SQL: часть 1 (введение в СУБД, однотабличные запросы)

а. Выведите значение колонки ContactName

```
SELECT contactname  
FROM otusQA
```

The screenshot shows the db-fiddle.com interface. The 'Schema SQL' tab is active, displaying the following SQL code:

```
1 CREATE TABLE otusQA(  
2   CustomerID int PRIMARY KEY,  
3   CustomerName varchar(150),  
4   ContactName varchar(150),  
5   Address varchar(150),  
6   City varchar(150),  
7   PostalCode varchar(150),  
8   Country varchar(150));  
9 INSERT INTO otusQA VALUES(1,'Alfreds Futterkiste', 'Maria Anders', 'Obere Str. 57',  
10 'Berlin', '12209', 'Germany');  
11 INSERT INTO otusQA VALUES(2,'Ana Trujillo Emparedados y helados', 'Ana Trujillo',  
12 'Avda. de la Constitución 2222', 'México D.F.', '05021', 'Mexico');  
13 INSERT INTO otusQA VALUES(3,'Antonio Moreno Taquería', 'Antonio Moreno', 'Mataderos',  
14 'México D.F.', '06020', 'Mexico');
```

The 'Query SQL' tab is also active, showing the query:

```
1 SELECT contactname  
2 FROM otusQA  
3
```

The 'Results' section shows the output of the query:

contactname
Maria Anders
Ana Trujillo
Antonio Moreno
Thomas Hardy

б. Выведите все возможные значения колонки Country

```
SELECT Country  
FROM otusQA  
ORDER BY Country
```

The screenshot shows the db-fiddle.com interface. The 'Schema SQL' tab is active, displaying the same SQL code as in the previous screenshot.

The 'Query SQL' tab is active, showing the query:

```
1 SELECT Country  
2 FROM otusQA  
3 ORDER BY Country  
4
```

The 'Results' section shows the output of the query:

Country
Germany
Mexico
Mexico
Sweden

с. Выведите все записи, где City имеет значение London

```
SELECT * FROM otusQA  
WHERE CITY = 'London'
```

The screenshot shows the db-fiddle.com interface. The Schema SQL tab contains the following code:

```
1 CREATE TABLE otusQA(  
2 CustomerID int PRIMARY KEY,  
3 CustomerName varchar(150),  
4 ContactName varchar(150),  
5 Address varchar(150),  
6 City varchar(150),  
7 PostalCode varchar(150),  
8 Country varchar(150));  
9 INSERT INTO otusQA VALUES(1,'Alfreds Futterkiste', 'Maria Anders', 'Obere Str. 57',  
10 'Berlin', '12209', 'Germany');  
11 INSERT INTO otusQA VALUES(2,'Ana Trujillo Emparedados y helados', 'Ana Trujillo',  
12 'Avda. de la Constitución 2222', 'México D.F.', '05021', 'Mexico');  
13 INSERT INTO otusQA VALUES(3,'Antonio Moreno Taquería', 'Antonio Moreno', 'Mataderos  
2232', 'México D.F.', '05021', 'Mexico');
```

The Query SQL tab contains the query:

```
1 SELECT * FROM otusQA  
2 WHERE CITY = 'London'
```

The Results tab shows the following table:

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
4	Around the Horn	Thomas Hardy	120 Hanover Sq	London	WA1 1DP	UK

d Выведите все записи, где City не равен London

```
SELECT * FROM otusQA  
WHERE CITY <> 'London'
```

The screenshot shows the db-fiddle.com interface. The Schema SQL tab contains the same code as the previous screenshot.

The Query SQL tab contains the query:

```
1 SELECT * FROM otusQA  
2 WHERE CITY <> 'London'  
3
```

The Results tab shows the following table:

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 snabbkop	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden

е. Выберите все записи, где Country равна Mexico и Postal Code 05021

```
SELECT * FROM otusQA
WHERE Country = 'Mexico'
AND PostalCode = '05021'
```

The screenshot shows the db-fiddle.com interface. The Schema SQL section contains the following code:

```
1 CREATE TABLE otusQA(
2 CustomerID int PRIMARY KEY,
3 CustomerName varchar(150),
4 ContactName varchar(150),
5 Address varchar(150),
6 City varchar(150),
7 PostalCode varchar(150),
8 Country varchar(150));
9 INSERT INTO otusQA VALUES(1,'Alfreds Futterkiste', 'Maria Anders', 'Obere Str. 57',
'Berlin', '12209', 'Germany');
10 INSERT INTO otusQA VALUES(2,'Ana Trujillo Emparedados y helados', 'Ana Trujillo',
'Avda. de la Constitución 2222', 'México D.F.', '05021', 'Mexico');
11 INSERT INTO otusQA VALUES(3,'Antonio Moreno Taquería', 'Antonio Moreno', 'Mataderos
2312', 'México D.F.', '05023', 'Mexico');
```

The Query SQL section contains the query:

```
1 SELECT * FROM otusQA
2 WHERE Country = 'Mexico'
3 AND PostalCode = '05021'
```

The Results section shows the following table:

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

ф. Выберите все записи у которых Country равна Mexico или Sweden

```
SELECT * FROM otusQA
WHERE Country = 'Mexico'
OR Country = 'Sweden'
```

The screenshot shows the db-fiddle.com interface. The Schema SQL section contains the same code as the previous screenshot.

The Query SQL section contains the query:

```
1 SELECT * FROM otusQA
2 WHERE Country = 'Mexico'
3 OR Country = 'Sweden'
```

The Results section shows the following table:

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	Bergsgatan 8	Luleå	S-958 22	Sweden