

SQL Exercises

Setup:

1. Go to: [SQL OnLine IDE \(sqliteonline.com\)](https://sqliteonline.com)
2. Connect to MS SQL
3. Run the following SQL:

```
CREATE TABLE Users (  
    UserId INT PRIMARY KEY IDENTITY(1,1),  
    UserName NVARCHAR(100) NOT NULL,  
    Email NVARCHAR(100) NOT NULL,  
    Location NVARCHAR(100),  
    HasSignedIn BIT NOT NULL  
);  
  
INSERT INTO Users (UserName, Email, Location, HasSignedIn) VALUES  
( 'Alice Johnson', 'alice.johnson@example.com', 'New York', 1),  
( 'Bob Smith', 'chuck.brown@example.com', 'Los Angeles', 0),  
( 'Chuck Brown', 'chuck.brown@example.com', 'Chicago', 1),  
( 'Diana Price', 'diana.price@example.com', 'New York', 1),  
( 'Edward Clark', 'edward.clark@example.com', 'San Francisco', 0);
```

This will create a dummy database.

Tasks:

1. Select all users

```
SELECT UserName FROM Users
```

2. Count all users

```
SELECT COUNT(UserName) FROM Users
```

3. Find all users with the location 'New York'

```
SELECT UserName FROM Users WHERE location='New York'
```

4. Find all users who have signed in

```
SELECT UserName FROM Users WHERE hassignedin='1'
```

5. Update the location of Bob Smith to Miami

```
UPDATE Users SET location='Miami' WHERE username='Bob Smith';
```

6. Delete Chuck Brown from DB

```
DELETE FROM Users WHERE username='Chuck Brown';
```

7. Order all users by their UserName

```
SELECT * FROM Users ORDER BY username DESC
```

8. Find duplicate emails

```
SELECT email, COUNT(*) from Users group by email HAVING COUNT(*) > 1
```

9. Select only UserId and UserName of all users

```
SELECT userid, username FROM Users
```

10. Add a new user into DB

```
INSERT INTO Users (UserName, Email, Location, HasSignedIn) VALUES ('Frank Jones',  
'frank.jones@example.com', 'Austin', 0)
```