## Creating and Configuring a SQL Server User in SSMS

Step-by-Step Guide to Create a User, Grant Permissions, and Set Up Connections Using SSMS

- 1. Create a New SQL Server Login
  - a. Open SQL Server Management Studio (SSMS).
  - b. Connect to your SQL Server instance.
  - c. Expand the Security folder in Object Explorer.
  - d. Right-click on Logins and select New Login.
  - e. In the Login New window:
    - Login name: Enter a name for the new SQL Server login (e.g., new\_user).
    - Authentication:
      - \* For SQL Server Authentication:
        - Select SQL Server authentication.
        - Enter a password for the new user.
        - Optional: Uncheck Enforce password policy.
      - \* For Windows Authentication:
        - Select Windows authentication.
        - Click the search icon to find a user in your domain.
    - Default database: Select a database the user should connect to by default.
  - f. Assign Server Roles:
    - Click on Server Roles in the left pane.
    - Check the appropriate server roles for this user (e.g., sysadmin, public, dbcreator).
  - g. User Mapping:
    - Click on User Mapping in the left pane.
    - Check the databases for user access.

h. Click OK to create the user. 2. Grant Permissions to the User a. Use SSMS or run SQL commands to grant specific permissions. b. Example SQL Commands: USE YourDatabaseName; GO -- Grant SELECT permission on a specific table GRANT SELECT ON dbo.YourTableName TO new\_user; -- Grant INSERT permission on a specific table GRANT INSERT ON dbo.YourTable TO new\_user; -- Grant EXECUTE permission on a stored procedure GRANT EXECUTE ON dbo. YourStoredProcedure TO new\_user; -- Grant full database ownership EXEC sp\_addrolemember 'db\_owner', 'new\_user';

- Assign database roles (e.g., db\_datareader, db\_datawriter, db\_owner).

- 3. Configure SSMS to Use SQL Server Authentication
  - a. Open SSMS and connect to your SQL Server instance.
  - b. In the "Connect to Server" window:
    - Server type: Choose Database Engine.
    - Server name: Enter your server name.
    - Authentication: Select SQL Server Authentication.
    - Enter the Login and Password you created earlier.
    - Click Connect.

- 4. Configure SSMS to Use Windows Authentication
  - a. Open SSMS and connect to your SQL Server instance.
  - b. In the "Connect to Server" window:
    - Server type: Choose Database Engine.
    - Server name: Enter your server name.
    - Authentication: Select Windows Authentication.
    - Click Connect.
- 5. Test the Connection
  - a. Log out of SSMS.
  - b. Log in using the new credentials (SQL Server or Windows Authentication).
  - c. Test access to databases and objects with granted permissions.