Create a csv extract from a sql query

Description

A csv extract file can be created using a SSIS package and a SQL Server Agent job which executes a query. The job can be scheduled to run regularly to produce a file at the desired interval. This document contains instructions on how to setup the SSIS package and schedule the SQL Server Agent job.

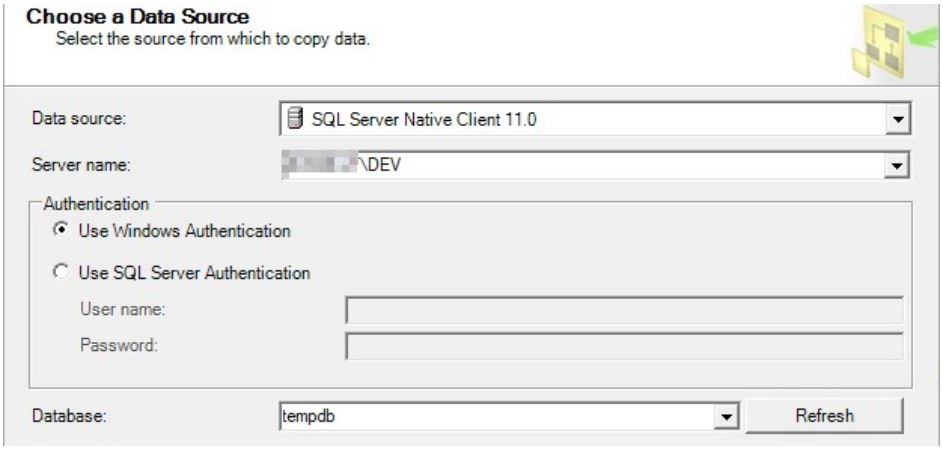
Query

Use the example SQL query below to create the csv extract file.

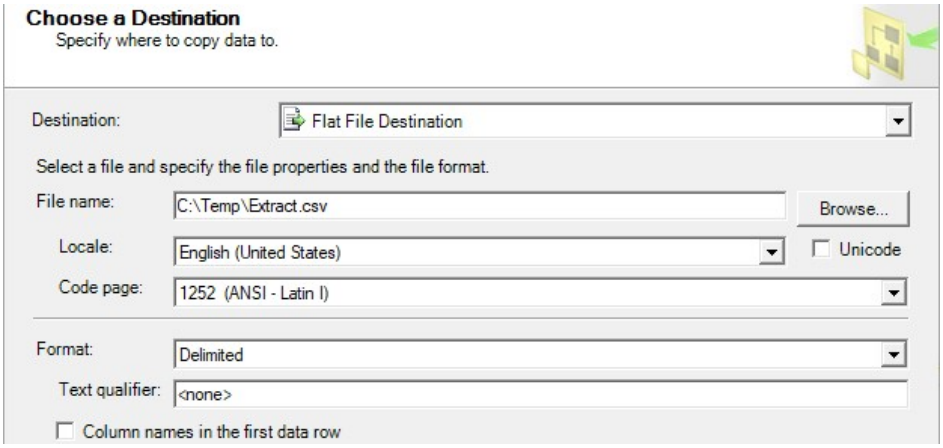
```
Select c.Column1, c.Column2, cid.Column3, aan.Column4
From table1 c
Join table2 cid
    On c.Column1 = cid.Column2
Left Join table3 aan
    On c.Column2 = aan.Column2
Where cid.Column5 = 0
Order by c.Column2, cid.Column3, aan.Column4
```

Create the SSIS Package

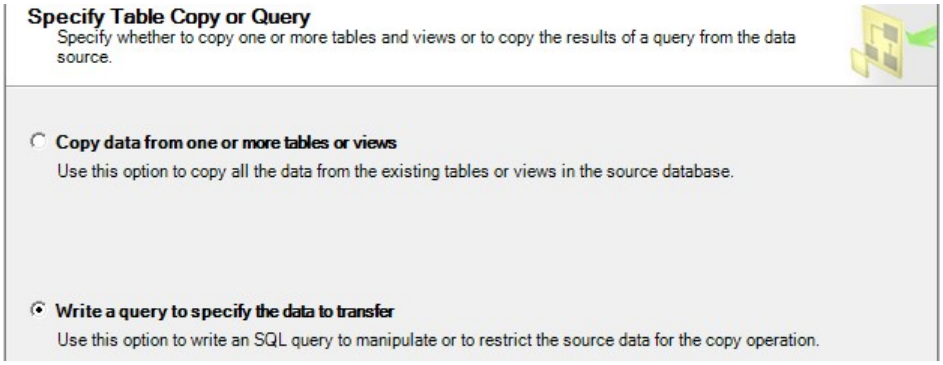
- In SQL Server Management Studio, right-click the database, choose **Tasks** then **Export Data**.
- Click Next to get to the **Data Source** menu.
- Data Source menu ○ Data Source: SQL Server Native Client. ○ Server Name: Choose the server that will execute the request.
  - Authentication: Windows Authentication ○ Database: The database housing the data for the csv extract.



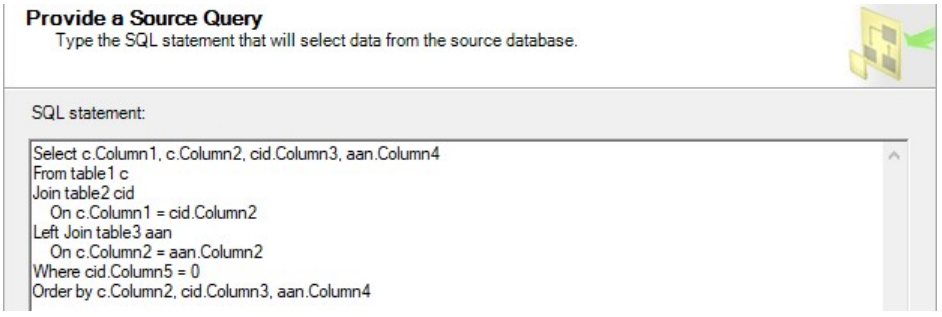
- Destination menu ○ Destination: Flat File Destination. ○ File Name: Name and path of the export file. ○ Format: Delimited. ○ Uncheck the box labeled, Column names in the first data row.



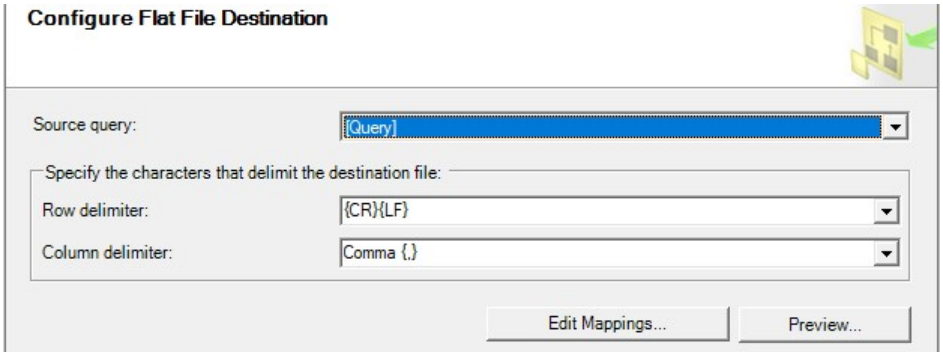
- Specify Table Copy or Query menu ○ Choose, Write a query to specify the data to transfer.



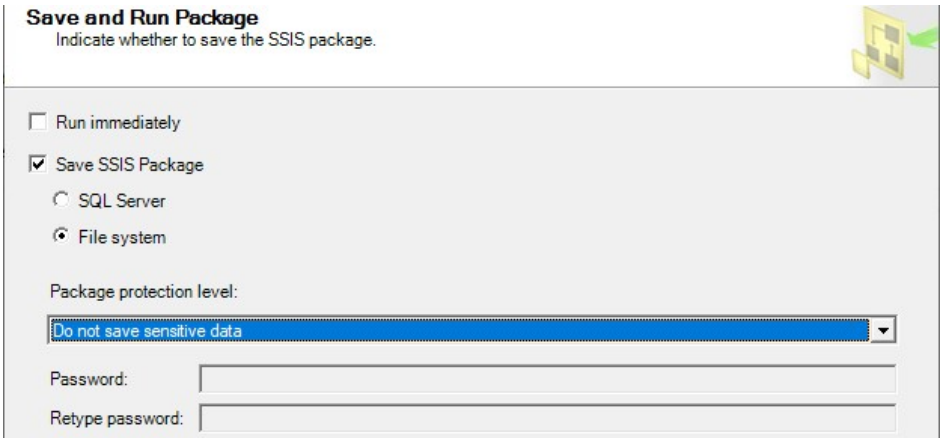
- Provide a Source Query menu.
  - Enter the query for the csv extract in the SQL statement window.



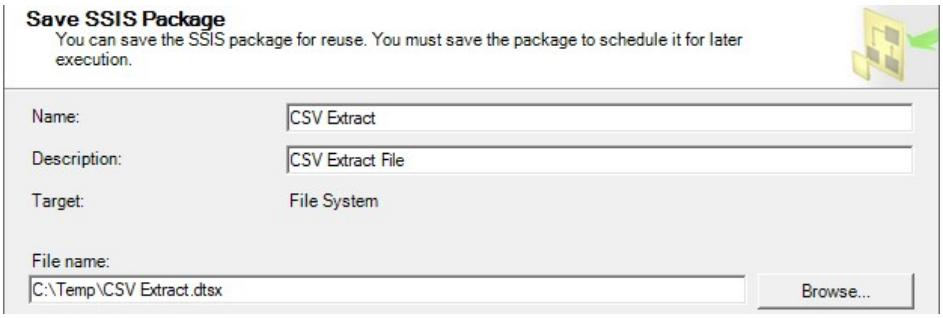
- Configure Flat File Destination menu. ○ Source Query: Query ○ Row delimiter: CR/LF ○ Column delimiter: Comma ○ Click Preview to check that query results display successfully.



- Save and Run Package menu ○ Check Save SSIS Package and select File System. ○ Package Protection Level: Do not save sensitive information.

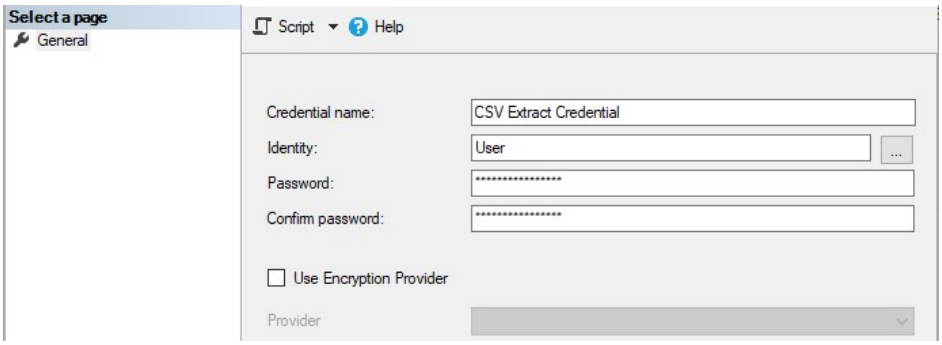


- Save SSIS Package menu ○ Name: Choose a descriptive name for the SSIS Package. ○ Description: Enter a description for the SSIS package. ○ File Name: Choose a path and file name to save the SSIS package information.

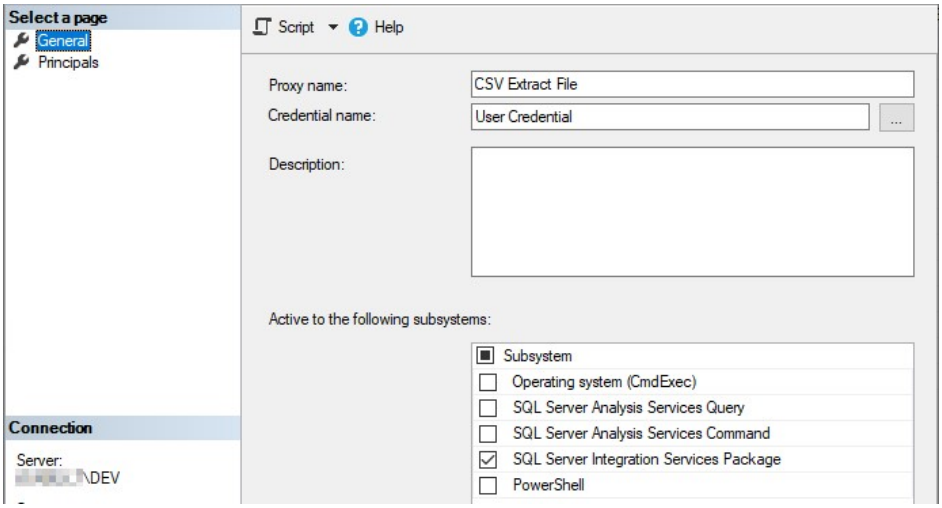


Create a Credential and Proxy to Execute the Job

- In SQL Server Management Studio, under the Security menu, create a new credential.
  - Credential Name: A descriptive name
  - Identity: The user account that will execute the ssis package. Please note, the user will need datareader permissions to the database and the sysadmin server role.
  - Password: The password for the account that will execute the ssis package.

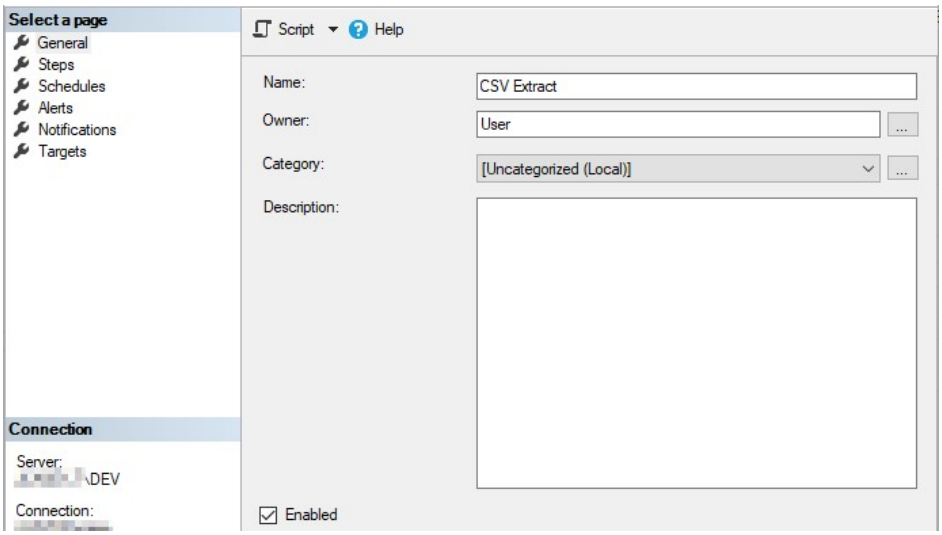


- Next, under SQL Server Agent create a new Proxy.
  - Proxy Name: A descriptive name. ○ Credential name: Browse and choose the credential created above. ○ Activate to the following subsystems: SQL Server Integration Services Package.

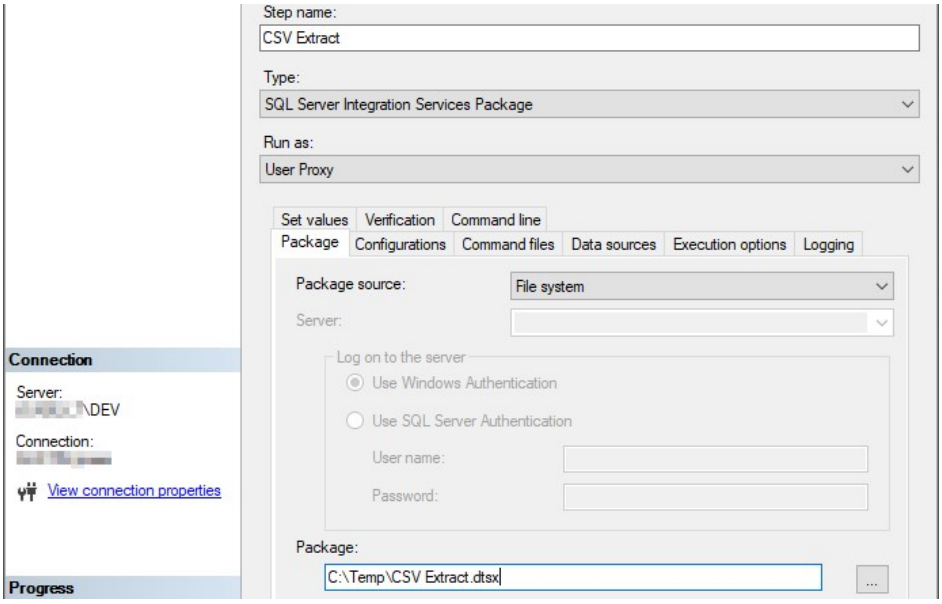


Schedule the Job

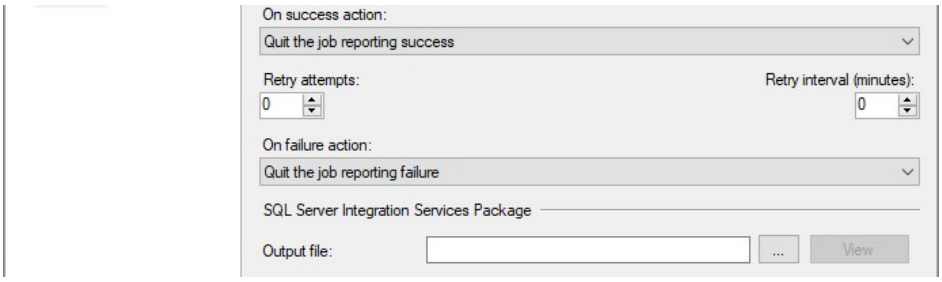
- In SQL Server Management Studio, expand SQL Server Agent, right-click Jobs and choose New Job.
- General Page ○ Name: Choose a descriptive name for the Agent job. ○ User: the SQL user who owns the job setup.



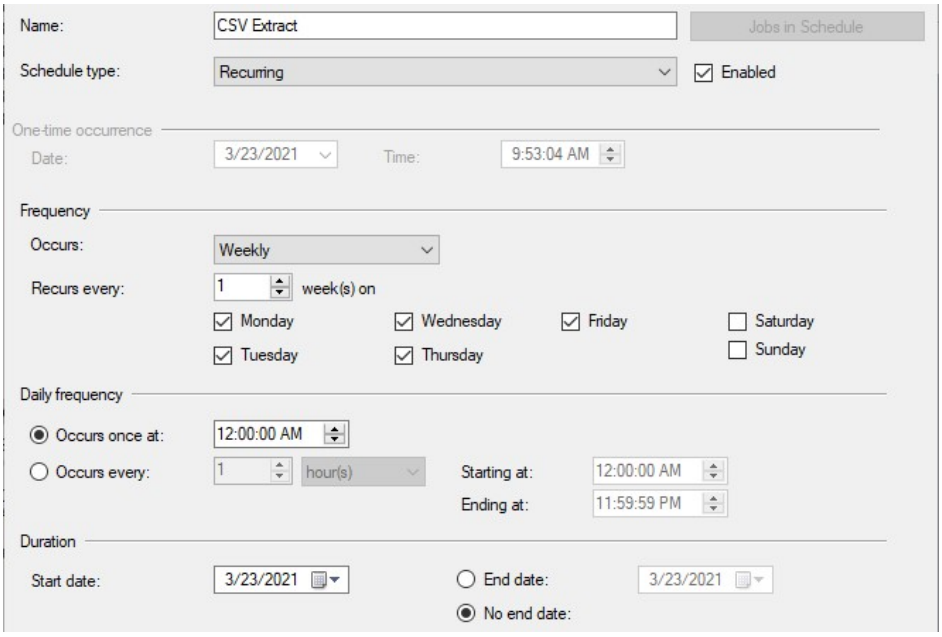
- Steps page.
  - Click New to create a new Job Step. ○ Choose a descriptive name. ○ Type: SQL Server Integration Services Package ○ Run as: The Proxy setup in the previous step. ○ Package Source: File System ○ Package: Browse to the package file created in a previous step.



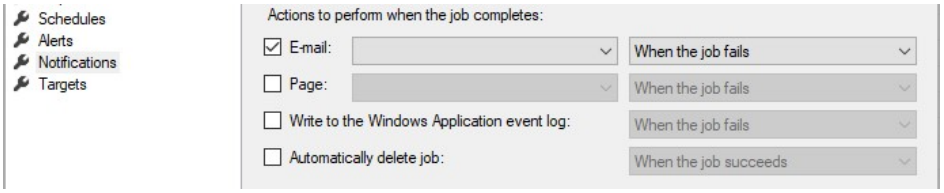
- Advanced Page
  - On success action: Quit the job reporting success.



- Job Schedule ○ Create and configure a new job schedule for the desired time frame.



- Notifications ○ If desired, email notifications can be sent upon job failures.



- Test the job.
  - Right-click the SQL Server agent job and choose Start Job at Step...
    - Verify the file created in the specified location.