Generating JCL

Generate the JCL that loads the data to the accelerator from a virtual table, virtual view, or selected SQL statement.

Before you begin

Have the following information available before starting this task:
- Source server name
- Source DB2® subsystem name
- DB2 load library names
- Accelerator name
- Product data set names
- JCL library name
- Table creator name
- Table name

To enable the Load Resume feature, you must have IBM® DB2 Analytics Accelerator for z/OS V4 PTF5 installed on the accelerator.

If the source data is not hosted on the same LPAR as the accelerator, two servers are required:
- The *data server* is the Accelerator Loader server that hosts the virtual table or view for the data to load to the accelerator.
- The *target server* is the Accelerator Loader server that has access to the DB2 subsystem and the accelerator to which it is configured. The target server's *hlvid*IN00 file must contain a configuration entry for the data server. When you run the wizard to generate the JCL, the name of this configuration definition is referred to as the *Data Server Name*.

About this task

In the steps that follow, the information that you enter is only required the first time that you generate the JCL.

Procedure

1. On the **Server** tab, expand **SQL >Data**.
2. Expand **Virtual Views** or **Virtual Tables** to navigate to the virtual view or table that represents the source data that you want to load.
3. Right-click the virtual view or table and select **Generate JCL to Load Accelerator**.

Source information

4. If you choose to modify the SQL query, you must click **Validate** before you can proceed to the next page. If the query is not valid, an error message displays showing the source of the problem.
5. Click **Next**.

Target information

6. On the Target Information page, select the target server to use:
   - If the server that hosts the virtual table or view exists on the same LPAR as the accelerator, choose **Use Current Server**. This is the default setting.
   - If the server that hosts the virtual table or view does not exist on the same LPAR as the accelerator, choose **Use Alternate Server**. If you choose this option, use **Set Server** to select the alternate server.

   The option that you choose now will display the next time that you run the wizard.

7. Select or enter the name of the **Target DB2 Subsystem** to use. This name must match the data server name that is configured in the target server's *hlvid*IN00 file.

8. Select or enter the name of the **Table Creator** to use.

9. Select or enter the **Table Name** to use.

10. Optional: If you choose to use parallel processing (map reduce), under **Loader Parallelism**:
    - Select **Enable** and then enter the number of parallel tasks to use. This option is disabled by default.
    - Click **Fetch Existing Table Attributes** if you are using an existing accelerated table name and you want to reuse the same Parallelism settings.

11. Optional: Under **CREATE TABLE DDL Options**, enter the **Database Name** and **Table Space Name** to use to create the accelerated table.

12. Optional: Click **DDL Preview** to preview the SQL CREATE statement that will be used to create the accelerated table.

13. Click **Next**.

JCL generation details

14. Optional: Enter the name of the **Target Server Group** to use.

15. Optional: Enter the target server **Utility ID** to use.

16. Enter the data set names of the product load libraries that you want to use in the following fields:
    - **Accelerator Loader Library (1)**
    - **Accelerator Loader Library (2)**

17. To add a DB2 load library, click **Add**, and then enter the name of the new DB2 load library. You can also choose an existing load library, and then click **Modify** or **Delete** to modify or delete the load library.

18. Enter the required details for running the DSNTEP2 sample DB2 program:
    - **DB2 Load Library (RUNLIB)**
    - **Plan Name** (the default is DSNTEP2)

19. Optional: Click **JCL Settings** to view or modify JCL generation preferences, and then click **OK** to close the Preferences dialog.

20. Click **Next**.

Job creation details

21. Optional: On the Job Creation page, select the JCL library to use. The JCL library that you choose is displayed the next time you open this page. If you do not plan to save the job on the host or if you do not know the location, leave this field blank.

22. Enter the **Member Name** that is used to identify the generated JCL file. The member name is also used to identify a local copy of the JCL file.

23. Accept or modify the **Job Name**.
24. Select from the following job options:
    - **DROP TABLE**: Drops the existing target table definition. Do not select this option if the accelerated table does not already exist.
    - **CREATE TABLE**: Creates a new target table definition.
    - Select from the following load options:
        - **LOAD REPLACE**: Replaces the data in the table.
        - **LOAD RESUME**: Loads new data to an existing table. Selecting LOAD RESUME disables the DROP TABLE and CREATE TABLE options.
25. Optional: To review the JCL, select **Open in Editor**.
26. Optional: To automatically submit the JCL, select **Auto-run using JCL View**. If the JCL library is specified in the JCL view, a copy of the JCL is saved in a PDS on the host. You can use this copy for future data loads.
27. To generate the JCL, click **Generate**.