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Course: SQL DEV 330

Assignment: Assignment 6

Question

Describe to a coworker how your ETL Reporting process works.

Answer

In this assignment, I will describe my ETL Reporting process.

The ETL process is about extraction, transformation, and loading data. For the first step, the 1_Assignment06SourceDatabase.sql file is executed to create the source database. For the second step, the 3_Assignment06DWDDatabase.sql file is used to create the destination of the DW database. For the third step, the 4_Assignment06ETL.sql file is used to create the ETL process using the DW database. For the final step, the 5_Assignment06ETLReportingObjects.sql file is used to create the ETL report views.

The SSIS package (DWEmployeeProjectsETLProcess) has been created as a visual layout as well as an execution plan of the ETL process by linking stored procedures to be executed in a specific order.

The SSIS package is automated through the use of SQL Server Agent. To set up the process, I had to set up credentials for SQL330 and then link it to a proxy named as SQL330. This proxy is used to execute the SSIS package and it is scheduled to run daily at 1am. I have created this SQL Server Agent Job as a SQL script so this is can be easily created on another computer. I have also created a report (Automation Job Report) which can show the job history of the SQL Server Agent Job.

The SSRS project (DWEmployeeProjectsReports) has been created using the ETL report views as the dataset. The created report is added as a custom report in SSMS which can easily be accessed without undergoing a troubleshooting process to execute the report. This report will show the ETL metadata log, ETL process automation log, current ETL pipeline data and top 10 rows of current dimension data.

In conclusion, the ETL Reporting process is very useful because the report can be added to SSMS as a custom report. Any implemented changes will be updated in the reports which can be very useful to troubleshoot issue with a visual guide with log updates.