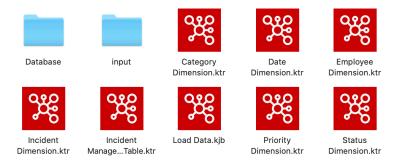
IMS ETL Technical Instructions

This is a manual to establish the technical environment in order to complete the ETL process, details will be explained as following, Downloaded Files, Technical Requirements, and Steps.

1. Downloaded files

• All the files mentioned are provided in a zip file, shown as below:



<u>Database Folder</u>:

- IMS Star Schema Group E.mwb,
- IMS_LOADdata.sql (backup of our database)
- <u>Input Folder</u> (Original Dataset): incident_event_log.csv;
- <u>The set of transformation</u> includes 7 transformations and 1 job linking the entire ETL process.

2. Technical requirements:

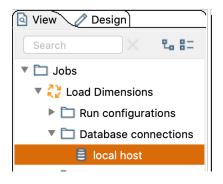
For a MacBookAir 1.6Ghz Intel Core i5 with 8GB RAM, the ETL for 6 dimensions takes an average of 7 min - 8 min, and ETL for the fact table takes 11 min 50 Sec. In total, the ETL process takes 19 min -20 min.

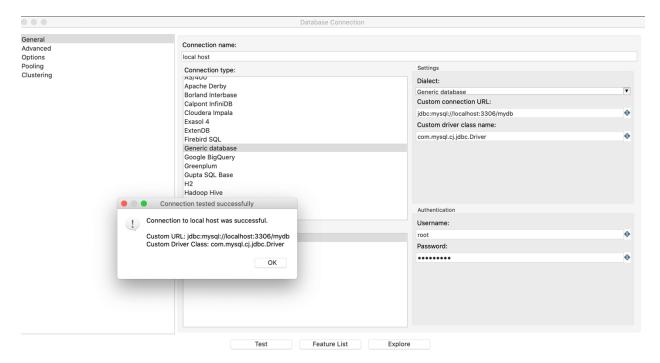
3. To run the ETL process with Schema

- To create mydb in local database: Open IMS Star Schema Group E.mwb with MYSQL WORKBENCH.
 - Database → Forward Engineer

2. Open Load Data.kjb in Pentaho

- o Double check whether the your MYSQL database local host is connected with Pentaho.
 - Custom connection URL: jdbc:mysql://localhost:3306/mydb
 - Custom Driver Class Name: com.mysql.cj.jdbc.Driver
 - Your username and password.





3. Run Load Data.kjb in **Pentaho** to run the **entire ETL process**.