

## READ ME

The folder contains 7 SQL files. The objective is the creation of an ETL process and the update of the DW using the delta loading method.

The User must run the files with the correct order. We named each file with a number for the user's ease. So first you run the number 1 then the 2, ...

Keep in mind that the files, with no number in the start of their name, are not part of the ETL process.

Some words for the functionality of each task :

- [1\\_Chinook\\_Staging.sql](#) : This file creates the staging area of the ETL process using the original database.
- [2\\_DW.sql](#) : This file creates the DW. After the execution of this file, you will have the basic structure of the DW, but with no data in it. If you need to run this file multiple times, make sure after first time you will comment or delete the lines 7-8.
- [3\\_DimDate\\_Chinook.sql](#) : This file creates the dimension Date (DimDate) in the DW, and loads the necessary data in it.
- [4\\_LoadData.sql](#) : In this file the data are loaded to the DW from the intermediate staging area. Keep in mind that the dimension and the fact are still not connected together.
- [5\\_Relationship\\_Creation.sql](#) : This file makes the necessary connections among the DW's tables, by creating the constraints. If you use this file, you cannot alter ( update,insert,delete ) the tables of DW.
- [B\\_SCD\\_TYPE2.sql](#) : You can use this file when you complete the ETL process. This file implements for the customer table the B\_SCD type 2 method and also updates the DW's fact table using the delta loading method. Due to the constraints we created in step 5, we made sure to release the right ones so you can alter the DW.
- [RemoveRelationships.sql](#) : You can use this file, when you have created the ETL process ( specifically when you run step 5 ), and you want to make some changes in the DW. It removes all the constraints created in step 5.