Original project materials on my device

| Archive | 08.12.2023 11:31 | Folder plików | |
|-----------------------|------------------|-------------------|-----------|
| Complaints | 08.12.2023 10:52 | Folder plików | |
| Queries | 08.12.2023 11:05 | Folder plików | |
| SSIS files | 08.12.2023 10:59 | Folder plików | |
| ZIP codes backup | 08.12.2023 11:26 | Folder plików | |
| O P2 - Logical model | 30.08.2023 16:53 | Chrome HTML Do | 20 KB |
| O P2 - Physical model | 04.09.2023 14:08 | Chrome HTML Do | 22 KB |
| P2_ComplaintsPBI_v01 | 08.12.2023 12:09 | Microsoft.Microso | 47 180 KB |
| zip_code_database | 28.08.2023 18:37 | Plik w formacie w | 4 544 KB |

Archive – Folder to which data source .csv files go after extraction to staging layer

Complaints - Folder in which data source .csv files are stored before extraction to staging layer

Queries – Folder in which sql queries are stored

SSIS files – Folder in which SSIS project files are stored (originally it is stored in other place on my computer)

ZIP codes backup – Official US ZIP codes list in .csv format, based on which Adress dimension is build and related to fact table ZIP codes attribute from data source

- P2 Logical data model PDF file with first version logical data model (may not include changes done in final data warehouse)
- P2 Physical data model PDF file with first version physical data model (may not include changes done in final data warehouse)
- P2_ComplaintsPBI_v01 Power BI report

zip_code_database - - Official US ZIP codes list in .csv format

Requirements to run project:

Specific file paths are stored in SSIS Connection manager. They need to be adjusted if SSIS packages have to be run on other devices. Moreover databases named 'db_complaints_staging' and 'db_complaints_staging' are needed to be created beforehand.

Specific file paths include:

- 1. zip_code_database and complaints data source .csv files as Connection managers, used variables and parameters (used for including possibilities of storing more than one .csv file) based on them
- 2. Queries In Control Flow SQL Tasks SQLTypeConnection are File connections
- 3. Archive folder

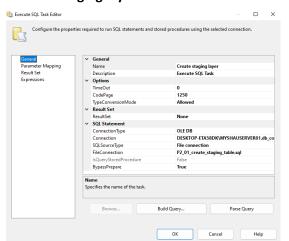
SSIS project is made out of 3 packages:

- P2_CreateDWH.dtsx Which runs queries: 'P2_01_create_staging_table.sql' and 'P2_02_create_core_layer.sql' to create all necessary tables
- P2_ExtractAndTransform.dtsx Which is responsible for initial load
- P2_DeltaLoad.dtsx Which is responsible for delta loads

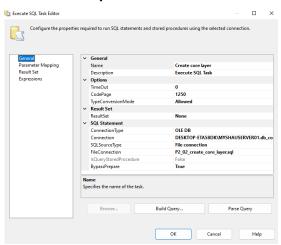
P2 CreateDWH.dtsx



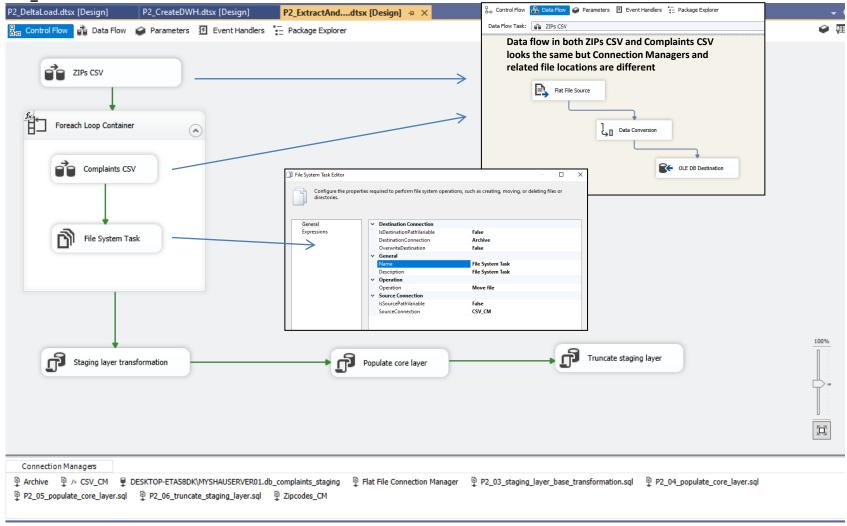
Create staging layer



Create core layer

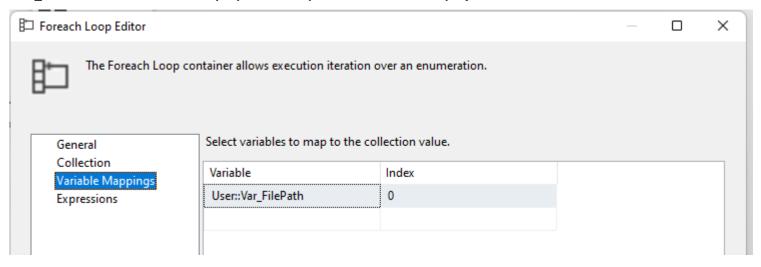


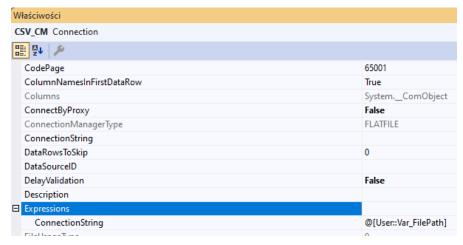
P2_ExtractAndTransform.dtsx

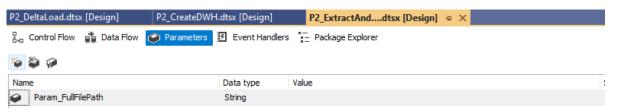


Package extracts data from zipcodes .csv file and complaints .csv file or files to tbl_Staging and tbl_Zipcodes in Staging layer, then queries are run to transform data and populate fact table and dimensions tables with propper data.

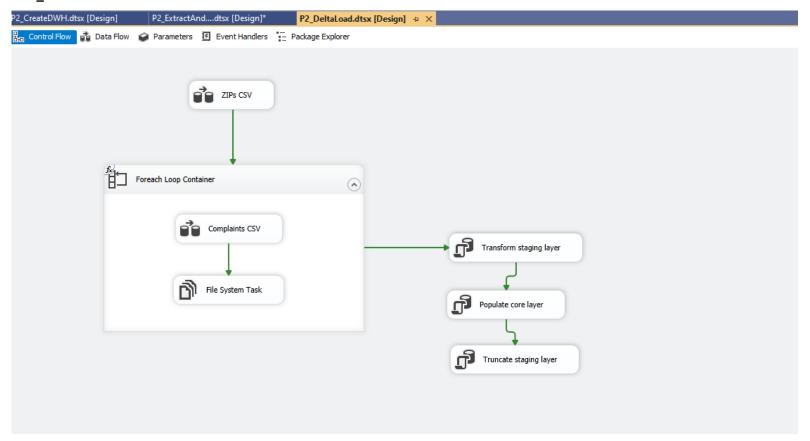
P2_ExtractAndTransform.dtsx - properties and parameters related to project







P2_DeltaLoad.dtsx



Package does the same what **P2_ExtractAndTransform.dtsx** only query in Populate core layer is different to make any new changes include the fact that there already is some data in core layer.