**Readme for Project**

The Center for Community Self-Help (Self-Help) is a community development lender and real estate developer. It was founded in Durham, North Carolina in 1980. Self-Help is one of the largest community development financial institutions in the United States, and a leader in profitably lending to underserved borrowers and communities.

Self Help's mission is to create and protect ownership and economic opportunity for all. Self-Help does this by providing responsible financial services, lending to small businesses and nonprofits, developing real estate and promoting fair financial practices. While Self-Help's work benefits communities of all kinds, the focus is on those who may be underserved by conventional lenders, including people of color, women, rural residents and low-wealth families and communities.

This document contains a step-wise guide to create a new database in the system and onboard fictitious data in various tables to answer some of the business intelligence assessment question asked for the role of summer intern’18 at Self Help Credit Union.

**Assessment Questions**

1. Write a query that shows year-to-date loan production (amount and count) by bank branch and month of close.
2. Write a query that shows the top 5 loan products in each state, in terms of loan production, by amount lent. Use the borrower’s address to determine the state.
3. Write a query that illustrates whether we are consistently making loans to low-income or minority borrowers across geographies.

**Instructions:**

1. All the files were developed using SQL Server Management Studio 17 on a windows platform.
2. Please execute the scripts (“*press F5*”) as per the numbers assigned (XX\_Text.sql) in the given order:
   1. 01\_CreateDatabaseSelfHelp.sql : Please note that this is the most critical part of the project since all the other files are dependent on the creation of a new database (SelfHelp). Please contact the author for a workaround in case this step fails.
   2. 02\_CreateTables\_DDL.sql
   3. 03\_InsertData\_LoanBorrowerInformation.sql
   4. 04\_InsertData\_LoanProductDefinition.sql
   5. 05\_InsertData\_BankBranchDefinition.sql
   6. 06\_InsertData\_EmployeeInformation.sql
   7. 07\_InsertData\_LoanOriginationInformation
   8. 08\_proc\_yearToDateLoanProduction.sql : After compiling (*“press F5”*) the procedure, execute the procedure as mentioned in the comments section inside the script.
   9. 09\_proc\_topLoanProductsByState: After compiling (*“press F5”*) the procedure, execute the procedure as mentioned in the comments section inside the script.
   10. 10\_MinorityTrends.sql: To support the data generated through this query, refer to SelfHelp\Files\ MinorityTrends.pdf

**Data:**

The data generated for the assessment is a fictitious data generated using various free online data sources and randomized in MS Excel. All the relevant data files are present in SelfHelp\Files\

1. Customized insert scripts are created to onboard data in SQL Server using concatenation command in MS Excel.
2. 01\_LoanBorrowerInformation.csv: This file contain information about loan borrowers.
3. 02\_ForeignTablesData.xlsx: This file contains data for all the tables that have a foreign key present in LoanOriginationInformation table. (*see sheets inside the file*)
4. 03\_LoanOriginationInformation: This file contains all the transaction data for the loans disbursed by a bank branch.
5. MinorityTrends.xlsx: This is a support file for assessment question 3.

Please note that the comment section for each sql file contains author’s understanding of the question along with assumptions made (if any). Also, relevant comments are marked on top of code for developer’s understanding. In case of any issues, please feel free to reach the author.