Data Analytics Bootcamp 12 June 12, 2021

Tecnologico de Monterrey

Team Members:

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ETL- Project Report

Housing loans Analysis for Mexican Municipalities.

Project Proposal:

The objective is to analyze housing credit loans that have general data from the applicants and combine it with housing and spending data from municipalities and states in Mexico to get better insigh

To achieve the objective for the project the following steps were taken:

**Extraction**

1. Data was acquired from two different CSV sources from INEGI (Instituto Nacional de Estadística y Geografía) and SNIIV (Sistema Nacional de Información e Indicadores de Vivienda).

Sources:[[1]](#footnote-1)

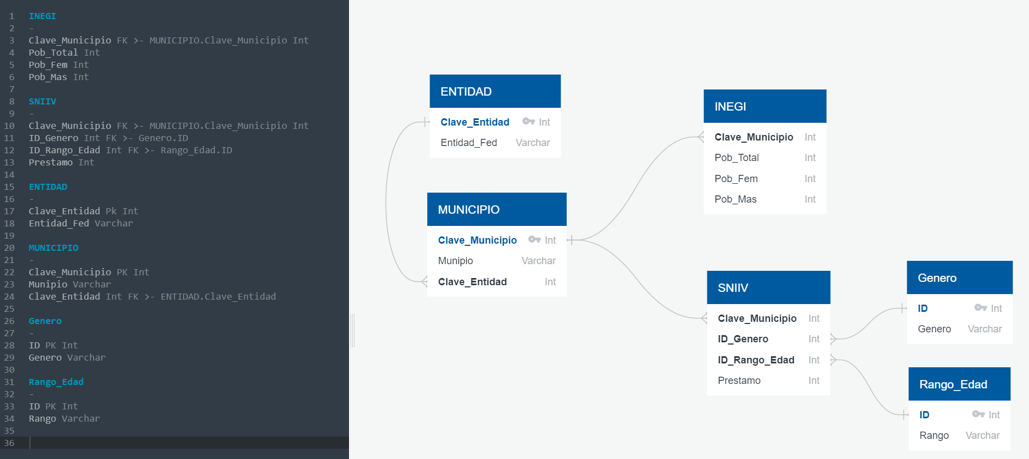
https://www.inegi.org.mx/programas/ccpv/2020/default.html#Datos\_abiertos

https://sniiv.conavi.gob.mx/reportes/datos\_abiertos.aspx

1. Concatenate elements from both data sets were chosen for their similarities
   1. “Clave de Entidad”
   2. “Clave de Municipio”

**Transformation**

Create a Schema utilizing app QuickDBD.



1. Jupyter Notebook

On Datasets SNIIV and INEGI.

Decide on the data model.

Load Datasets to pandas as Data Frames.

Filter columns for analysis.

Change and match the names of columns.

Normalize data by creating different tables from the original datasets.

1. Link the files can be found in ReadMe.md File. [↑](#footnote-ref-1)