Update Mortgage Data

# Workflow

1. Get raw data in excel file format at Bloomberg terminal
2. Clean raw data at local machine
3. Update data to server oracle database
4. Update metrics and attribute in MicroStrategy

# Get raw data

On Bloomberg terminal, run Bloomberg software. Run *call\_CreateExcel.bat* to execute *createexcel.vbs* script to read *list.xlsx* download data.

The Bloomberg software must be running when download.

The Bloomberg Excel Add-In must be install on the terminal.

Download script only can run on Bloomberg terminal.

File:

1. List.xlsx is an excel file which contain data name and corresponding Bloomberg code
2. Createexcel.vbs is a script which using Bloomberg code through excel add-in download quarter and national level data
3. call\_CreateExcel.bat is batch file which make vbs file execution easier. Because vbs file need to run in command line.
4. Output is an excel file contain all data with report date

# Clean data

Use *FullJoinFinal.py* to reformat raw data to match database structure which output is a csv file.

# Update data to oracle

1. Raw data table name: *DM\_MDS.F\_BLOOMBERG\_DATA*
   1. Create copy of old raw data table
   2. Drop old raw data table
   3. Create a new raw data table with same name with updated data
2. Materialized view name: *DM\_MDS.MV\_BLG\_DATA*
   1. Create copy of old Materialized view
   2. Drop old Materialized view
   3. Using *Create\_BLOOMBERG\_MV.sql* to create new Materialized view with same name base on new raw data table

# Update MicroStrategy

Once the materialized view updated, the metrics and attribute in MicroStrategy will automatically updated.