How to bulk tier FBS results

Getting baseline data

1. Run 380LOS SQL code located here: Q:\Data Requests - Corresponding with Sharepoint and Jira\380 - Family Services\SQL (Appendix A)
2. Run 380.SQL located here: Q:\Data Requests - Corresponding with Sharepoint and Jira\380 - Family Services\SQL (Appendix B)
3. Copy results into a blank excel book

Prepping data in excel

1. Calculate Preliminary Risk without DHS factors
   1. Create tab called ServiceKeyLookup
   2. Paste in pivot table with ClinCat, LOCLabel, and count of members (estimate)
   3. Create a second tab called OrigServiceKey, and paste in service key tab from FBRisk
   4. Do vlookup to pull in risk factor and clincat from orig into ServiceKeyLookup
   5. Go through and manually handle #NA
2. Add 3 columns to raw data – clinrisk, negoutcome, risk (formulas available, vlookup off servkeylookup)
   1. Populate these columns using servkeylookup
3. Pivot for individual level data. Headers should be as follows (must be exact to run R script, may be a little dif depending on what services people actually used. For instance, I don’t often see preschool codes come up, so just leave those columns blank and shift the others over accordingly)

|  |
| --- |
| **MasterBK** |
| **Full\_Name** |
| **ageatservicebegin** |
| **Gender\_Label** |
| **RaceEthnic\_Label** |
| beforebegin |
| beforeend |
| duringbegin |
| duringend |
| afterbegin |
| afterend |
| Check |
| **Sum of Risk** |
| **RiskwoDHS** |
| **BeforeAIP** |
| **DuringAIP** |
| **AfterAIP** |
| **BeforeCRC** |
| **DuringCRC** |
| **AfterCRC** |
| **BeforeCrisis** |
| **DuringCrisis** |
| **AfterCrisis** |
| **BeforeCRR** |
| **DuringCRR** |
| **AfterCRR** |
| **BeforeEval** |
| **DuringEval** |
| **AfterEval** |
| **BeforeFamFFT** |
| **DuringFamFFT** |
| **AfterFamFFT** |
| **BeforeFBS** |
| **DuringFBS** |
| **AfterFBS** |
| **BeforeHH** |
| **DuringHH** |
| **AfterHH** |
| **BeforeMedMgmt** |
| **DuringMedMgmt** |
| **AfterMedMgmt** |
| **BeforeOP** |
| **DuringOP** |
| **AfterOP** |
| **BeforeOther** |
| **DuringOther** |
| **AfterOther** |
| **BeforePartial** |
| **DuringPartial** |
| **AfterPartial** |
| **BeforePreschool** |
| **DuringPreschool** |
| **AfterPreschool** |
| **BeforeResidential** |
| **DuringResidential** |
| **AfterResidential** |
| **BeforeRTF** |
| **DuringRTF** |
| **AfterRTF** |
| **BeforeSTS** |
| **DuringSTS** |
| **AfterSTS** |
| **BeforeTCM** |
| **DuringTCM** |
| **AfterTCM** |
| **BeforeWrapBS** |
| **DuringWrapBS** |
| **AfterWrapBS** |
| **BeforeWrapMT** |
| **DuringWrapMT** |
| **AfterWrapMT** |
| **BeforeWrapOther** |
| **DuringWrapOther** |
| **AfterWrapOther** |
| **BeforeWrapTSS** |
| **DuringWrapTSS** |
| **AfterWrapTSS** |
| **DHSBefore** |
| **DHSDuring** |
| **DHSAfter** |
| **DHSAfternotDuring** |
| **FinalRiskincDHS** |
| **FlagBeforeBSC** |
| **FlagBeforeMT** |
| **FlagBeforeTSS** |
| **FlagDuringBSC** |
| **FlagDuringMT** |
| **FlagDuringTSS** |
| **FlagAfterBSC** |
| **FlagAfterMT** |
| **FlagAfterTSS** |
| **BeforeWrapMulti** |
| **DuringWrapMulti** |
| **AfterWrapMulti** |
| **BeforeOther1** |
| **DuringOther1** |
| **AfterOther1** |

1. Paste the pivot into a new sheet and add the column formulas for flag and dhs formula columns. RED COLUMNS HAVE FORMULAS; yellow cells combine with other to create other1

Pulling in DHS info

1. Save excel sheet, then load individual tab into a table in SQL called FBSrisk (drop old table first)
2. Run SQL code called DHS BDA code for risk data (here: Q:\!\_Jessica S\Care management transformation\CBCAFS\FBS)
3. Paste 3 columns that pop out into a DHS index tab
4. Vlookup binaries into the indiv sheet.

Running R script

1. Save indiv tab to CSV, and replace all blank cells with 0
2. Create the models using the baseline data:
   1. Drag FBSRisk.StartingPointforRcode to desktop, rename FBSRisk
   2. Open FBSCleanedCodeforBuildingModels
   3. Run to create production models at the end. Make sure all libraries (randomForest) are loaded)
3. Open the following script: Q:\!\_Jessica S\Care management transformation\CBCAFS\FBS\FBS Predictions\code for FBS predictions
4. Enter the CSV file name in the top of the code, making sure the file is saved to the desktop
5. Run the code, and run the calculator models at the end instead of full production models.