**Experience using Python, R, SQL, SAS, SPSS, STATA, JavaScript. Below are a few examples, but I have many more.**

**R Code that Webscrapes competitor cost Data**

library('rvest')

url <- 'http://www.imdb.com/search/title?count=100&release\_date=2016,2016&title\_type=feature'

webpage <- read\_html(url)

rank\_data\_html <- html\_nodes(webpage,'.text-primary')

rank\_data <- html\_text(rank\_data\_html)

head(rank\_data)

url2 <- 'https://www.collegedata.com/cs/data/college/college\_pg03\_tmpl.jhtml?schoolId=498'

webpage <- read\_html(url2)

rank\_data\_html <- html\_nodes(webpage,'td')

rank\_data <- html\_text(rank\_data\_html)

head(rank\_data)

url3 <- 'https://www.collegedata.com/cs/data/college/college\_pg03\_tmpl.jhtml?schoolId=1601'

webpage <- read\_html(url3)

rank\_data\_html <- html\_nodes(webpage,'td')

rank\_data <- html\_text(rank\_data\_html)

head(rank\_data)

***Python Code to Merge and display Data Distribution Information***

*import pandas as pd*

*import numpy*

*pd.options.display.max\_columns=300*

*x=pd.read\_excel("J:/File.xlsx",0)*

*z=x.fillna("blank")*

*x['agesCut'] = pd.cut(x['Age as of 8/25/17'],[0, 18, 19, 21, 24, 29, 34, 39, 49, 64, 200], labels=['0-18', '18-19', '20-21', '22-24', '25-29', '30-34', '35-39', '40-49', '50-64', '65 and over'])*

*z['agesCut'] = pd.cut(z['Age as of 8/25/17'],[0, 18, 19, 21, 24, 29, 34, 39, 49, 64, 200], labels=['0-18', '18-19', '20-21', '22-24', '25-29', '30-34', '35-39', '40-49', '50-64', '65 and over'])*

*list(z)*

*q=z.head(n=1555)*

*gpa=pd.read\_excel("C:/Users/schemsak/Desktop/2017 Fall GPA Enrolled Students.xlsx")*

*merged=q.merge(gpa, left\_on="People Code", right\_on="PEOPLE\_CODE\_ID", how="left")*

*merged*

*gpa*

*merged["GPA"].describe()*

**SPSS Syntax to Create Course Reports at Demographic level.**

SORT CASES BY CourseSecLastFirstComb.

SPLIT FILE SEPARATE BY CourseSecLastFirstComb.

FREQUENCIES VARIABLES=ThecourseasawholewasOverallEffectiveness TheinstructorseffectivenessinteachingthesubjectmatterwasOverallE TheinstructorsknowledgeofthematterseemedOverallEffectiveness Theinstructorpresentedmaterialinaclearmanner.Howfrequentlywaseac Theinstructorwasabletointereststudentsinthematerial.Howfrequentl Theinstructorencouragedparticipation.Howfrequentlywaseachofthefo Theinstructorwaswellorganized.Howfrequentlywaseachofthefollowing

Theinstructorgavememeaningfulfeedbackontestsandotherwork.Howfreq Theinstructorsevaluationofmyworkwasfairandimpartial.Howfrequentl TheinstructorwasavailablewhenIsoughttoconsulthimheroutsideofclas Theinstructorkepttheappointedclassroomhours.Howfrequentlywaseach Theinstructorwasontimeforclass.Howfrequentlywaseachofthefollowin Theinstructorclearlystatedthegoalsandpurposesofthecourseinthesyl Thecourseachievedthestatedgoalsandpurposes.Relativetoothercolleg

Thiscoursehelpedmetounderstandprinciplesandprocessesnaturalscien

/ORDER=ANALYSIS.

**SPSS Syntax to View CrossTabs of 13,000 case Fortune 500 data: displays Frequency of Company, by Product Family, by Year.**

GET DATA /TYPE=XLSX

/FILE='\\tsclient\G\Copy of Fortune500Companies\_Case Study.xlsx'

/SHEET=name 'WF Revenue'

/CELLRANGE=full

/READNAMES=on

/ASSUMEDSTRWIDTH=32767.

EXECUTE.

DATASET NAME DataSet1 WINDOW=FRONT.

CROSSTABS

/TABLES=CompanyName BY Year BY ProductFamily Product

/FORMAT=AVALUE TABLES

/CELLS=COUNT

/COUNT ROUND CELL.

**SPSS Syntax to create Bivariate Correlations on 85,000+ case Integrated Postsecondary Education Data File.**

CORRELATIONS /VARIABLES=grad\_rate\_150\_n4yr total\_enrollment actmt75 satvr75 /PRINT=TWOTAIL NOSIG /MISSING=PAIRWISE.

**SPSS Syntax: Regression of Grad Rate on Retention Rate and Math SAT 75th percentile using 85,000+ case Delta Cost File.**

REGRESSION

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT grad\_rate\_150\_n4yr

/METHOD=ENTER ftretention\_rate actcm75.

***JavaScript – Plotly Data Visualization***

*Right click “View Source” at the link below to see JavaScript code*

[*https://sjchemsak.github.io/graphics52.html*](https://sjchemsak.github.io/graphics52.html)