73	psraid sample lang state cregion usr form sex q1 marital birth_hisp race inc q11a q12hh qc1 qc2hh zipcode weight standwt process p
53	<pre># Isolates Facebook Data df_facebook = df[['inc','marital','sex','q1','q2c','q2j','q11d','sns2e','age']]</pre>
	<pre>IndexesToRemove = [] def clean_data(df, smcol):</pre>
	<pre>index = 0 sm_index = 0 for column in df[smcol]: if column == " ": IndexesToRemove.append(sm_index) sm_index += 1 else: sm_index += 1 WithoutDuplicates = [] [WithoutDuplicates.append(x) for x in IndexesToRemove if x not in WithoutDuplicates] df = df.drop(df.index[WithoutDuplicates]) IndexesToRemove.clear() return df</pre>
	5 217 3 95
5 4 9 N 0 0 0	5 48 4 24
	<pre># Makes Seperate Dataframes According to How Much a User uses Facebook import collections def snsCategories(df,val,sns): return df.loc[df[sns] == val] several = snsCategories(df_fb,"1","sns2e") onceaday = snsCategories(df_fb,"2","sns2e") threetofive = snsCategories(df_fb,"3","sns2e") onetotwo = snsCategories(df_fb,"4","sns2e") everyfewweeks = snsCategories(df_fb,"5","sns2e")</pre>
57	<pre>lessoften = snsCategories(df_fb, "6", "sns2e") # Breaks down Each Usage Category by age demographics early_several = several.query("age>=18" and "age<=34") earlymiddle_several = several.query("age>=35" and "age<=44") middle_several = several.query("age>=45" and "age<=64") late_several = several.query("age>=65") severalbyage = [early_several, earlymiddle_several, middle_several] severalbyage[0]</pre>
57 1	inc marital sex q1 q2c q2j q1ud sns2e age 62 NaN 6 1 3 3 3 2 1 18 101 9.0 6 2 2 4 2 1 30 114 3.0 6 2 4 2 3 3 3 3 3 3 3 114 3.0 6 2 4 2 3 3 3 3 3 3 3 175 1.0 6 1 2 3 3 3 1 23 175 1.0 6 2 2 1 3 1 28 178 2.0 1 2 3 3 3 1 28
1 1 14 58	1786 7.0 6 1 2 1 2 4 1 19 1793 6.0 6 2 2 2 4 1 1 25 1795 6.0 6 2 3 3 4 2 1 21 48 rows × 9 columns # Breaks down Each Usage Category by age demographics
58	<pre>early_onceaday = onceaday.query("age>=18" and "age<=34") earlymiddle_onceaday = onceaday.query("age>=35" and "age<=44") middle_onceaday = onceaday.query("age>=45" and "age<=64") late_onceaday = onceaday.query("age>=65") onceadaybyage =[early_onceaday, earlymiddle_onceaday, middle_onceaday, late_onceaday] onceadaybyage[1].describe() inc marital sex q1 q2c q2j q11d age count 103.000000 113.000000 113.000000 113.000000 113.000000 113.000000 113.000000</pre>
	mean 5.135922 3.115044 1.433628 2.575221 2.221239 3.274336 2.920354 30.743363 std 2.364146 2.266811 0.497783 1.015991 0.903708 0.956629 1.225777 7.737638 min 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 2.000000 25% 3.000000 1.000000 2.000000 2.000000 3.000000 3.000000 3.000000 3.000000 50% 5.000000 2.000000 3.000000 3.000000 4.000000 37.000000 max 9.000000 6.000000 2.000000 5.000000 4.000000 8.000000 44.000000
59	# Breaks down Each Usage Category by age demographics early_threetofive = threetofive.query("age>=18" and "age<=34") earlymiddle_threetofive = threetofive.query("age>=35" and "age<=44") middle_threetofive = threetofive.query("age>=45" and "age<=64") late_threetofive = threetofive.query("age>=65") threetofivebyage =[early_threetofive, earlymiddle_threetofive, middle_threetofive, late_threetofive] threetofivebyage[0].describe()
r	inc marital sex q1 q2c q2j q11d age count 27.000000 33.000000 33.000000 33.000000 33.000000 33.000000 33.000000 mean 4.074074 4.030303 1.515152 2.606061 2.090909 2.757576 2.848485 24.818182 std 2.479546 2.242834 0.507519 1.197377 0.722999 0.791766 1.481579 5.071086 min 1.000000 1.0
60	50% 4.000000 6.000000 2.000000 3.000000 3.000000 2.000000 23.000000 23.000000 75% 6.000000 6.000000 2.000000 3.000000 3.000000 4.000000 29.000000 max 9.000000 6.000000 2.000000 5.000000 3.000000 4.000000 9.000000 34.000000 # Breaks down Each Usage Category by age demographics early_onetotwo = onetotwo.query("age>=18" and "age<=34") earlymiddle_onetotwo = onetotwo.query("age>=35" and "age<=44")
60	middle_onetotwo = onetotwo.query("age>=45" and "age<=64") late_onetotwo = onetotwo.query("age>=65") onceadaybyage =[early_onetotwo, earlymiddle_onetotwo, middle_onetotwo, late_onetotwo] onceadaybyage[0] inc marital sex q1 q2c q2j q11d sns2e age 135 4.0 4 2 3 1 3 4 4 27 145 6.0 4 1 2 3 4 4 4 30
1	180 6.0 1 1 2 2 4 2 4 34 420 3.0 1 1 2 1 4 2 4 28 430 1.0 6 2 4 1 2 3 4 29 761 6.0 6 2 3 2 4 30 982 3.0 6 1 4 4 4 21 1003 8.0 1 1 2 1 3 2 4 25
1 1 1 1 1	1014 3.0 6 2 3 3 3 2 4 21 1117 1.0 1 1 5 1 2 4 4 24 1146 2.0 6 1 2 4 3 3 4 20 1177 6.0 1 1 3 2 4 4 4 33 1184 8.0 1 2 1 2 2 4 29 1214 8.0 1 2 2 1 1 2 4 32
1 1 1 1	1227 7.0 6 1 2 4 4 4 4 26 1238 4.0 6 1 4 2 3 2 4 30 1333 7.0 1 2 3 2 4 8 4 31 1406 2.0 6 2 2 2 3 4 4 21 1414 2.0 6 1 3 2 2 4 29 1440 6.0 1 2 3 1 2 2 4 30
1 1 1 1	1451 2.0 6 1 4 1 2 1 4 32 1572 6.0 3 1 4 1 1 2 4 29 1656 5.0 1 1 2 2 3 2 4 30 1713 NaN 6 1 2 1 1 3 4 21 1716 1.0 1 1 4 2 1 2 4 27 1743 NaN 6 2 2 2 3 1 4 18
61	# Breaks down Each Usage Category by age demographics early_everyfewweeks = everyfewweeks.query("age>=18" and "age<=34") earlymiddle_everyfewweeks = everyfewweeks.query("age>=35" and "age<=44") middle_everyfewweeks = everyfewweeks.query("age>=45" and "age<=64") late_everyfewweeks = everyfewweeks.query("age>=65") everyfewweeksbyage = [early_everyfewweeks, earlymiddle_everyfewweeks, middle_everyfewweeks, late_everyfewweeks] everyfewweeksbyage[0]
1 1 1	inc marital sex q1 q2c q2j q11d sns2e age 87 5.0 6 2 3 1 2 4 5 30 915 2.0 6 1 4 2 2 2 5 20 1124 3.0 1 2 2 2 3 3 3 5 26 1164 9.0 6 1 1 4 4 4 5 5 1176 6.0 6 2 1 1 3 3 2 5 19
1 1 1 1 1	1182 NaN 6 1 2 3 3 4 5 21 1245 7.0 6 1 2 3 3 4 5 23 1324 1.0 6 1 3 3 4 3 5 21 1345 6.0 1 2 3 3 4 4 5 28 1460 NaN 6 2 1 3 4 2 5 23 1478 6.0 2 1 2 3 3 3 5 27 1486 6.0 1 1 2 4 4 4 5 29
1 1 1	1634 7.0 1 2 1 1 2 3 5 30 1724 2.0 3 2 4 1 2 4 5 34 1774 NaN 6 1 1 2 4 3 5 19 # Breaks down Each Usage Category by age demographics early_lessoften = lessoften.query("age>=18" and "age<=34")
62	earlymiddle_lessoften = lessoften.query("age>=35" and "age<=44") middle_lessoften = lessoften.query("age>=45" and "age<=64") late_lessoften = lessoften.query("age>=65") lessoftenbyage =[early_lessoften, earlymiddle_lessoften, middle_lessoften, late_lessoften] lessoftenbyage[0] inc marital sex q1 q2c q2j q11d sns2e age 64 2.0 6 1 2 4 1 4 6 33 158 5.0 1 2 4 4 4 4 6 27
1 1 1 1	158 5.0 1 2 4 4 4 4 6 27 1010 5.0 1 1 2 3 3 4 6 33 1022 8.0 4 1 3 2 2 2 6 32 1087 2.0 1 1 3 1 4 4 6 27 1165 NaN 6 2 3 2 2 2 6 18 1200 6.0 6 1 3 2 3 3 6 30 1217 2.0 1 1 2 1 4 2 6 28
1 1 1 1 1	1247 2.0 2 1 4 3 3 4 6 28 1289 4.0 1 2 4 1 3 3 6 26 1297 5.0 6 1 4 4 4 4 6 23 1409 5.0 1 1 2 3 4 3 6 30 1470 4.0 6 2 3 1 2 3 6 20 1540 6.0 1 1 3 1 2 2 6 33
1 1 1	1541 8.0 1 2 1 2 4 1 6 28 1639 NaN 6 1 2 4 3 2 6 28 1655 NaN 1 1 4 1 4 3 6 28 1785 4.0 1 1 2 3 3 4 6 26 # Compiled By Converting each query to csv and copying the mean values ListOfLessOften = [[2.8333333333,2.33333333,3.0555555556,3],
	[2.769230769, 2.307692308, 3.025641026, 3.153846154],
64	[2.423076923, 2.653846154, 3.346153846, 2.730769231]] ListOfSeveralADay = [[2.459459459, 2.283783784, 3.067567568, 2.641891892],
	<pre>qol = [row[0] for row in category] nervous = [row[1] for row in category] difficulties = [row[2] for row in category] fomo = [row[3] for row in category] plt.plot(LOC, qol, label = "Quality Of Life") #qol 1 (excellent) - 5 (poor) plt.plot(LOC, nervous, label = "Nervous or Stressed") plt.plot(LOC, difficulties, label = "Felt Overwhelmed") plt.plot(LOC, fomo, label = "Fear of Missing Out") # 1 (frequent) - 5 (never) plt.legend()</pre>
3	plt.legend() plt.title(title) plot(ListOfLessOften, "Less Often") Less Often 2.5
1	Quality Of Life Nervous or Stressed Felt Overwhelmed Fear of Missing Out early Early Middle Middle Late
3	plot(ListOfEveryFewWeeks, "Every Few Weeks") Every Few Weeks 3.2 Outline Of Life
2	Quality Of Life Nervous or Stressed Felt Overwhelmed Fear of Missing Out 2.4 early Early Middle Middle Late
3	Done To Two Times a Week") One To Two Times a Week Ouality Of Life Nervous or Stressed Felt Overwhelmed Fear of Missing Out
2 2 2	2.8 2.6 2.4 2.2 2.0 1.8 early Early Middle Middle Late
3	plot(ListOfThreeToFive, "Three To Five Times a Week") Three To Five Times a Week 3.2 Quality Of Life Nervous or Stressed Felt Overwhelmed Fear of Missing Out
2	2.8 2.6 2.4 2.2 early Early Middle Middle Late
3	District of Once A Day Once A Day Quality Of Life Nervous or Stressed Felt Overwhelmed Fear of Missing Out
2	2.8 - 2.6 - 2.4 - 2.2 - early Early Middle Middle Late
3	plot(ListOfSeveralADay, "Several") Several Quality Of Life
2	Quality Of Life Nervous or Stressed Felt Overwhelmed Fear of Missing Out early Early Middle Middle Late
7-1	<pre># Converts Each Category Into A Data Frame several = pd.DataFrame(several) onceaday = pd.DataFrame(onceaday) onetotwo = pd.DataFrame(onetotwo) threetofive = pd.DataFrame(threetofive) lessoften = pd.DataFrame(lessoften)</pre>
	<pre># Replaces Missing Income Values Using A K Nearest Neighbor algorithm and determines how close # the average income is to the natinal average. from sklearn.impute import KNNImputer def ImputedLessOften(x): impute_knn = KNNImputer(n_neighbors = 2) lessoften = impute_knn.fit_transform(x) return lessoften def ImputedOnceADay(x): impute_knn = KNNImputer(n_neighbors = 2) onceaday = impute_knn.fit_transform(x)</pre>
	<pre>return onceaday def ImputedOneToTwo(x): impute_knn = KNNImputer(n_neighbors = 2) onetotwo = impute_knn.fit_transform(x) return onetotwo def ImputedThreeToFive(x): impute_knn = KNNImputer(n_neighbors = 2) threetofive = impute_knn.fit_transform(x)</pre>
	<pre>threetofive = impute_knn.fit_transform(x) return threetofive def ImputedSeveral(x): impute_knn = KNNImputer(n_neighbors = 2) several = impute_knn.fit_transform(x) return several def ImputedEveryFewWeeks(x): impute_knn = KNNImputer(n_neighbors = 2) EveryFewWeeks = impute_knn.fit_transform(x) return EveryFewWeeks</pre>
	<pre>return EveryFewWeeks lo = ImputedLessOften(lessoften) oad = ImputedOnceADay(onceaday) ott = ImputedOneToTwo(onetotwo) ttf = ImputedThreeToFive(threetofive) s = ImputedSeveral(several) efw = ImputedEveryFewWeeks(everyfewweeks) def getIncome(category): income = category[:, 1]</pre>
	<pre>print(np.sum(income)/len(income)) return (np.sum(income)/len(income)) # representative of \$30000 AverageIncomeCategory = 3 several_income = float(getIncome(s)) onceaday_income = float(getIncome(oad)) onetotwo_income = float(getIncome(ott)) threetofive_income = float(getIncome(ttf)) lessoften_income = float(getIncome(lo)) everyfewweeks_income = float(getIncome(efw))</pre>
	<pre>everyfewweeks_income = float(getIncome(efw)) def Closeness(AIC, CI): return CI / AIC ClosenessSeveral = Closeness(AverageIncomeCategory, several_income) ClosenessOAD = Closeness(AverageIncomeCategory, onceaday_income) ClosenessOTT = Closeness(AverageIncomeCategory, onetotwo_income) ClosenessTTF = Closeness(AverageIncomeCategory, threetofive_income) ClosenessLO = Closeness(AverageIncomeCategory, lessoften_income)</pre>
2	ClosenessEFW = Closeness(AverageIncomeCategory, everyfewweeks_income) print("Income") print("Several Closeness To Average: " + str(ClosenessSeveral)) print("Once A Day Closeness To Average: " + str(ClosenessOAD)) print("Once To Two Day's Closeness To Average: " + str(ClosenessOTT)) print("Three To Five Day's Closeness To Average: " + str(ClosenessTF)) print("Less Often's Closeness To Average: " + str(ClosenessLO)) print("Every Few Week's Closeness To Average: " + str(ClosenessEFW)) 2.8446327683615817
2 2 2 2 2 1 S 0 0	2.6343612334801763 2.65 2.75 2.4578313253012047 2.4237288135593222 Income Several Closeness To Average: 0.9482109227871939 Once A Day Closeness To Average: 0.8781204111600588 Once To Two Day's Closeness To Average: 0.8833333333333333
L	Three To Five Day's Closeness To Average: 0.91666666666666666666666666666666666666