

# STATISTICS

## ASSIGNMENT-1

**EXERCISE 1.** At what level are each of the following variables operationalized?  
Numerical (*Continuous/Discrete*) or Categorical

|   | Variable Name                                     | Value Labels                          | Data Type         |
|---|---|---------------------------------------|-------------------|
| 1 | Age   | 1, 2, 3, ....                         | <i>Continuous</i> |
| 2 | Sex   | male, female, other                   | Nominal           |
| 3 | Class standing                                    | freshman, sophomore, junior, senior   | Ordinal           |
| 4 | Marital Status                                    | married, single, divorced, widowed    | Nominal           |
| 5 | Median Household Income                           | annual household income in dollars    | Continuous        |
| 6 | How much you like the food on campus?             | a lot, some, a little, other          | Ordinal           |
| 7 | The number of toxic waste sites in your community | 0, 1, 2, 3, ....                      | Discrete          |
| 8 | The number of toxic waste sites in your community | 0, 1–5, 6–10, 11+                     | Ordinal           |
| 9 | Your GPA  | below average, average, above average | Ordinal           |

**EXERCISE 2.** Go to the National Opinion Research Center's 2008 General Social Survey Codebook at <http://sda.berkeley.edu/D3/GSS08/Doc/gss08.htm> (Alphabetical Variable List). What is the level of measurement (nominal, ordinal, interval, or ratio) for the following variables?

| Variable Name | Level of Measurement | Variable Name | Level of Measurement |
|---------------|----------------------|---------------|----------------------|
| ABLEGAL       | <i>Ordinal</i>       | MUSICALS      | Ordinal              |
| ACTLIT        | Nominal              | NATBORN       | Nominal              |
| ADULTS        | Ratio                | NUMKIDS       | Ratio                |
| AGE           | Ratio                | PAINCURE      | Ordinal              |
| BIBLE         | Nominal              | POLVIEWS      | Ordinal              |
| BLKZONE       | Ordinal              | RACE          | Nominal              |
| CARSGEN       | Ordinal              | SEX           | Nominal              |
| CONROCK       | Ordinal              | TRUST         | Nominal              |