Assignment 2

Tianrun Gu 4166209

Tig19@Pitt.edu

Question 1:

**“->” means being referenced by**

* Forest = (Forest\_No, Name, Area, Acid\_Level, MBR\_XMin, MBR\_XMax, MBR\_YMin, MBR\_YMax)
  + PK: (Forest\_No)
  + UQ: (Name)
  + FK: (Forest\_No) -> COVERAGE (Forest\_No)
  + FK: (Forest\_No) -> INTERSECTION (Forest\_No)
* –  STATE = (Name, Abbreviation, Area, Population)
  + PK: (Abbreviation)
  + UQ: (Name)
  + FK: (Abbreviation) -> COVERAGE (State)
* –  COVERAGE = (Forest No, State, Percentage, Area)
  + PK: (Forest\_No, State)
* –  ROAD = (Road\_No, Name, Length)
  + PK: (ROAD\_No)
  + UQ: (Name)
  + FK: (Road\_No) -> INTERSECTION (Road\_No)
* –  INTERSECTION = (Forest\_No, Road No)
  + PK: (Forest\_No, ROAD\_No)
* –  SENSOR = (Sensor\_Id, X, Y, Last Charged)
  + PK: (Sensor\_Id)
  + FK: (Snesor\_Id) -> REPORT (Sensor\_Id)
* –  REPORT = (Sensor\_Id, Temperature, Report\_Time )
  + PK: (Sensor\_Id, Report\_Time)
* –  WORKER = (SSN, Name, Age, Rank)
  + PK: (SSN)
  + UQ: (NAME)