

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)