**Original Table Schema**

Original table (Reporting Period, Project Number, City, County, State, Zip Code, Sector, Program Type, Solicitation ,Electric Utility, Purchase Type, Date Application Received, Date Completed, Project Status, Contractor, Primary Inverter Manufacturer, Primary Inverter, Model Number, Total Inverter, Quantity, Primary PV Module Manufacturer, PV Module Model Number, Total PV Module Quantity, Project Cost, $Incentive, Total Nameplate kW DC, Expected KWh Annual Production, Remote Net Metering, Affordable Solar, Community Distributed Generation, Green Jobs Green New York Participant, Location 1)

**Table schema we need to make**

1. Location (Project Number, City, County, State, Zip Code, Location 1)
2. Project ID (Project Number, Program Type, Date Application Received, Date Completed)
3. Project Status (Project Number, Project Status, Contractor, Project Cost)
4. Project Provider (Project Number, Contractor, Primary Inverter Manufacturer, Primary PV Module Manufacturer)
5. PV Model (Project Number, Primary PV Module Manufacturer, PV Module Model Number, Total PV Module Quantity)
6. Project Type (Project Number, Purchase Type, Remote Net Metering, Affordable Solar, Community Distributed Generation)
7. Project Production (Project Number, $Incentive, Total Nameplate kW DC, Expected KWh Annual Production)

**3NF filename(contents)**

1) projnum(ProjectNumber, ZipCode,Location1)/zipcodes (Zip Code, City, County,State) \*

2) Project ID (Project Number, Program Type, Date Application Received, Date Completed)

3) numcost (Project Number, Project Cost)/ cost(Project Cost, Project Status, Contractor)\*

4) numcontractor (Project Number, Contractor)/contractor(Contractor, Primary Inverter Manufacturer, Primary PV Module Manufacturer)\*

5) nummodule (Project Number, Primary PV Module Manufacture) /module(Primary PV Module, Manufacture PV Module Model Number, Total PV Module Quantity)\*

6) Project Type (Project Number, Purchase Type, Remote Net Metering, Affordable Solar, Community Distributed Generation) – can’t change this. Three of the columns are yes or no outputs

7) numincentive (Project Number, $Incentive) /incentive($incentive, Total Nameplate kW DC, Expected KWh Annual Production)\*

To Do List:

Jiayu Yan: Part 1: Conceptual Database Design (ER model) for above tables

Andrew Nwalie: Part 2: Logical Database Design (Normalization, 3NF) for above tables

Chang Liu & I-Hua Tsai: Part 3 & 4(Database table & Validation) for above tables