**SQL Final Project Questions**

9.

a. Create the appropriate foreign key constraints.

CREATE TABLE EnergyTypes

(

EnergyType\_ID int PRIMARY KEY,

EnergyTYpe VARCHAR(50) NOT NULL,

EnergyCat\_id int REFERENCES EnergyCategories(EnergyCat\_id)

);

b. Create an entity relationship (ER) diagram for the tables in the database.



c) Suppose you wanted to design a set of HTML pages to manage (add, edit, and delete) the information in the various database tables. Create a mockup of the interface.

**Main screen**



**Buildings Table Screen**



**Building Energy Type Screen**



**Energy Category Screen**



**Energy Type Screen**



d. Suppose you want to track changes over time in energy type preferences in New York City buildings. What information should you add to each table?

* Create history table
* Add table triggers
* Replace table primary key with the column name