CREATE TABLE Diseases(

Disease\_Type TINYINT NOT NULL,

Mortality TINYINT,

Strength TINYINT NOT NULL,

Incubation TINYINT,

PRIMARY KEY(Disease\_Type)

)

CREATE TABLE Region(

Region\_Num TINYINT NOT NULL,

Population INTEGER NOT NULL,

Pop\_Density INTEGER NOT NULL,

PRIMARY KEY(Region\_Num)

)

CREATE TABLE Schools(

School\_Name VARCHAR(30),

Enrollment INTEGER NOT NULL,

Traffic INTEGER NOT NULL,

PRIMARY KEY(School\_Name)

)

CREATE TABLE Bus\_Routes(

Bus\_ID VARCHAR(5) NOT NULL,

Traffic INTEGER NOT NULL,

PRIMARY KEY(Bus\_ID)

)

CREATE TABLE Homeless\_Shelters(

Shelter\_Name VARCHAR(30),

Region\_Num TINYINT NOT NULL,

Traffic INTEGER NOT NULL,

PRIMARY KEY(Shelter\_Name),

FOREIGN KEY(Region\_Num) REFERENCES Region(Region\_Num)

)

CREATE TABLE Stores(

Store\_ID TINYINT NOT NULL,

Store\_Name VARCHAR(40) NOT NULL,

Size TINYINT NOT NULL,

PRIMARY KEY(Store\_ID)

)

CREATE TABLE Restaurant(

R\_ID TINYINT NOT NULL,

R\_Name VARCHAR(40),

Popularity TINYINT NOT NULL,

PRIMARY KEY(R\_ID)

)

CREATE TABLE Household(

Household\_ID INTEGER NOT NULL,

Region\_Num TINYINT NOT NULL,

Household\_Type VARCHAR(5) NOT NULL,

Race VARCHAR(20) NOT NULL,

Number\_People TINYINT NOT NULL,

Number\_Children TINYINT,

Number\_Old TINYINT,

Number\_Males TINYINT,

Number\_Females TINYINT,

Income DECIMAL(13,2), Temporarily set as VARCHAR(3)

PubTrans TINYINT, Temporarily set as VARCHAR(3)

PRIMARY KEY(Household\_ID),

FOREIGN KEY(Region\_Num) REFERENCES Region(Region\_Num)

)

CREATE TABLE Workplaces(

Work\_ID VARCHAR(30),

Work\_Name VARCHAR(30),

Region\_Num TINYINT NOT NULL,

Traffic INTEGER NOT NULL,

PRIMARY KEY(Work\_ID),

FOREIGN KEY(Region\_Num) REFERENCES Region(Region\_Num)

)

CREATE TABLE OldAgeHomes(

OAH\_ID TINYINT,

OAH\_Name VARCHAR(30),

Capacity TINYINT,

Region\_Num TINYINT NOT NULL,

PRIMARY KEY(OAH\_ID),

FOREIGN KEY(Region\_Num) REFERENCES Region(Region\_Num)

)

CREATE TABLE Parks\_Rec(

Name VARCHAR(30) NOT NULL,

Region\_Num TINYINT NOT NULL,

Traffic INTEGER NOT NULL,

PRIMARY KEY(Name) ,

FOREIGN KEY(Region\_Num) REFERENCES Region(Region\_Num)

)

CREATE TABLE Hospitals(

Hospital\_ID INTEGER NOT NULL,

Hospital\_Name INTEGER NOT NULL,

Region\_Num TINYINT NOT NULL,

Capacity INTEGER NOT NULL,

PRIMARY KEY(Hospital\_ID, Hospital\_Name),

FOREIGN KEY(Region\_Num) REFERENCES Region(Region\_Num)

)

CREATE TABLE Individuals(

Person\_ID INTEGER NOT NULL AUTO\_INCREMENT,

Household\_ID INTEGER NOT NULL,

School\_Name VARCHAR(30),

Work\_ID VARCHAR(30),

Child VARCHAR(5),

OAH\_ID TINYINT,

Age TINYINT NOT NULL,

Health\_Status VARCHAR(10) NOT NULL,

Homeless\_shelter VARCHAR(30),

Susceptibility TINYINT NOT NULL,

PRIMARY KEY(Person\_ID),

FOREIGN KEY(Household\_ID) REFERENCES Household(Household\_ID),

FOREIGN KEY(School\_Name) REFERENCES Schools(School\_Name),

FOREIGN KEY(Work\_ID) REFERENCES Workplaces(Work\_ID),

FOREIGN KEY(OAH\_ID) REFERENCES OldAgeHomes(OAH\_ID),

FOREIGN KEY(Homeless\_shelter) REFERENCES Homeless\_Shelters(Shelter\_Name)

)

CREATE TABLE Belongs\_To(

Bus\_ID VARCHAR(5) NOT NULL,

Region\_Num TINYINT NOT NULL,

PRIMARY KEY(Bus\_ID, Region\_Num),

FOREIGN KEY(Bus\_ID) REFERENCES Bus\_Routes(Bus\_ID),

FOREIGN KEY(Region\_Num) REFERENCES Region(Region\_Num)

)

New Create Table Statements 4/10/18 For Julia’s Database (By Richard)

CREATE TABLE Works\_At(

Person\_ID INTEGER,

Work\_ID INTEGER,

PRIMARY KEY(Person\_ID, Work\_ID),

FOREIGN KEY(Person\_ID) REFERENCES Individuals(Person\_ID),

FOREIGN KEY(Work\_ID) REFERENCES Workplaces(Work\_ID)

)

CREATE TABLE Workplaces(

Work\_ID INTEGER,

Name VARCHAR(50),

PRIMARY KEY(Work\_ID)

)

create table region(

region\_num tinyint not null,

population integer not null,

primary key(region\_num)

)

create table households (

household\_id integer not null,

region\_num tinyint not null,

race varchar(20) not null,

income varchar(3) not null,

pubtrans varchar(5) not null,

primary key(household\_id),

foreign key(region\_num) references region(region\_num)

)

create table individuals (

person\_id integer not null,

household\_id integer not null,

age tinyint not null,

primary key(person\_id),

foreign key(household\_id) references households(household\_id)

)

create table workplace (

work\_id integer not null,

name varchar(50),

primary key(work\_id)

)

create table works\_at (

person\_id integer not null,

work\_id integer not null,

primary key(person\_id, work\_id),

foreign key(person\_id) references individual(person\_id),

foreign key(work\_id) references workplace(work\_id)

)