Project Part 3 -- Nathan Smith and Kristen Massey

CREATE TABLE Airport (

UNIQUE Airport\_Code DECIMAL (6,0) NOT NULL,

Airport\_Name VARCHAR(50),

City VARCHAR(25),

State CHAR(2),

PRIMARY KEY (Airport\_Code)

);

CREATE TABLE Flights (

UNIQUE Flight\_Number INTEGER NOT NULL AUTO\_INCREMENT,

Airline VARCHAR(25),

Start\_Airport\_Code DECIMAL(6,0) NOT NULL,

End\_Airport\_Code DECIMAL (6,0) NOT NULL,

PRIMARY KEY (Flight\_Number),

FOREIGN KEY (Start\_Airport\_Code) REFERENCES Airport(Airport\_Code),

FOREIGN KEY (End\_Airport\_Code) REFERENCES Airport(Airport\_Code)

);

CREATE TABLE Fares (

UNIQUE Fare\_Code INTEGER NOT NULL AUTO\_INCREMENT,

Flight\_Number INTEGER NOT NULL,

Fare\_Cost DECIMAL (5,2),

Fare\_Restrictions VARCHAR(1000),

PRIMARY KEY (Fare\_Code),

FOREIGN KEY (Flight\_Number) REFERENCES Flights(Flight\_Number)

);

CREATE TABLE Airplane (

UNIQUE Tail\_Number INTEGER NOT NULL,

Seat\_Number INTEGER,

Max\_Seat\_Number INTEGER,

Model VARCHAR(25),

Manufacturer VARCHAR(25),

CHECK (Seat\_Number < Max\_Seat\_Number),

PRIMARY KEY (Tail\_Number)

);

CREATE TABLE Leg\_Schedule (

UNIQUE Leg\_Number INTEGER NOT NULL AUTO\_INCREMENT,

Flight\_Number INTEGER NOT NULL,

Start\_Airport\_Code DECIMAL(6,0) NOT NULL,

End\_Airport\_Code DECIMAL (6,0) NOT NULL,

Scheduled\_Departure\_Time VARCHAR(20),

Scheduled\_Arrival\_Time VARCHAR(20),

Date VARCHAR(20),

Available\_Seat\_Number INTEGER,

PRIMARY KEY (Leg\_Number),

FOREIGN KEY (Leg\_Number) REFERENCES Leg\_Instance(Leg\_Number), //This statement wont work until (Leg\_Instance) is created and will have to be added in later in an “Alter Table” command //

FOREIGN KEY (Flight\_Number) REFERENCES Flights(Flight\_Number),

FOREIGN KEY (Start\_Airport\_Code) REFERENCES Airport(Airport\_Code),

FOREIGN KEY (End\_Airport\_Code REFERENCES Airport(Airport\_Code)

);

CREATE TABLE Leg\_Instance (

UNIQUE Leg\_Number INTEGER NOT NULL,

Flight\_Number INTEGER NOT NULL,

Actual\_Departure\_Time VARCHAR(20),

Actual\_Arrival\_Time VARCHAR(20),

Tail\_Number INTEGER NOT NULL,

Date VARCHAR(20)

PRIMARY KEY(Leg\_Number),

FOREIGN KEY (Flight\_Number) REFERENCES Flights(Flight\_Number),

FOREIGN KEY (Tail\_Number) REFERENCES Airplane(Tail\_Number)

);

CREATE TABLE Seats (

Seat\_Number VARCHAR(4) NOT NULL,

Passenger\_Name VARCHAR(20),

Passenger\_Phone INTEGER,

Flight\_Number INTEGER NOT NULL,

Leg\_Number DECIMAL(12,0) NOT NULL,

Available CHAR(1),

FOREIGN KEY (Flight\_Number) REFERENCES Flights(Flight\_Number),

FOREIGN KEY (Leg\_Number) REFERENCES Leg\_Instance(Leg\_Number)

);

CREATE TABLE Flight\_Days (

Flight\_Number INTEGER NOT NULL,

Monday CHAR(1),

Tuesday CHAR(1),

Wednesday CHAR(1),

Thursday CHAR(1),

Friday CHAR(1),

Saturday CHAR(1),

Sunday CHAR(1),

FOREIGN KEY (Flight\_Number) REFERENCES Flights(Flight\_Number)

);

CREATE TABLE Landing\_Allowances (

Model VARCHAR(20) NOT NULL,

Airport\_Code DECIMAL(6,0) NOT NULL,

Allowed CHAR(3) NOT NULL

);