**CS 122A/EECS116 Assignment 2**

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CREATE TABLE **Employee**(

emp\_id INTEGER,

Job title VARCHAR(40),

SSN CHAR(11),

Birthday DATE,

Phoneno INTEGER,

PRIMARY KEY (emp\_id),

street VARCHAR(40),

state VARCHAR(40),

City VARCHAR(40),

Zipcode INTEGER,

PRIMARY KEY (emp\_id)

);

CREATE TABLE **Maintenance\_Engineer**(

Skill VARCHAR(20),

Emp\_id INTEGER NOT NULL,

PRIMARY KEY(emp\_id),

FOREIGN KEY(emp\_id) REFERENCES Employee

);

CREATE TABLE **Pilot**(

Since DATE,

Emp\_id INTEGER NOT NULL,

PRIMARY KEY(emp\_id),

FOREIGN KEY(emp\_id) REFERENCES Employee

);

CREATE TABLE **Flight Attendant**(

Service year INTEGER,

Emp\_id INTEGER NOT NULL,

PRIMARY KEY(emp\_id),

FOREIGN KEY(emp\_id) REFERENCES Employee

);

CREATE TABLE **Operation Staff**(

Department VARCHAR(20),

Emp\_id INTEGER NOT NULL,

PRIMARY KEY(emp\_id),

FOREIGN KEY(emp\_id) REFERENCES Employee

);

CREATE TABLE **Airplane**(

Modelno INTEGER,

Registration\_no INTEGER,

Capacity INTEGER,

Purchase\_year DATE,

Manufactured\_year DATE,

PRIMARY KEY(registration\_no)

);

CREATE TABLE **Flight(**

Projected\_arrival\_time DATETIME,

Flight\_no VARCHAR(40),

Projected\_dept\_time DATETIME,

IATA\_code VARCHAR(3) NOT NULL,

Registration\_no INTEGER,

PRIMARY KEY(Projected\_dept\_time, Flight\_no),

FOREIGN KEY(Registration\_no) REFERENCES Airplane ON DELETE SET NULL,

FOREIGN KEY(IATA\_code) REFERENCES Airport ON DELETE CASCADE

);

CREATE TABLE **Airport**(

IATA\_code VARCHAR(3),

Name VARCHAR(40),

Airport\_loc\_state VARCHAR(20),

Airport\_loc\_city VARCHAR(20),

PRIMARY KEY(IATA\_code)

);

CREATE TABLE **departs\_from**(

Actual\_dept\_time DATETIME,

Project\_dept\_time DATETIME,

Flight\_no DATETIME,

IATA\_code VARCHAR(3),

PRIMARY KEY(project\_dept\_time,flight\_no),

FOREIGN KEY(IATA\_code) REFERENCES Airport,

FOREIGN KEY( project\_dept\_time, flight\_no) REFERENCES Flight

);

CREATE TABLE **arrives\_at**(

Actual\_dept\_time DATETIME,

Project\_dept\_time DATETIME,

Flight\_no DATETIME,

IATA\_code VARCHAR(3),

PRIMARY KEY(project\_dept\_time,flight\_no),

FOREIGN KEY(IATA\_code) REFERENCES Airport,

FOREIGN KEY( project\_dept\_time, flight\_no) REFERENCES FLIGHT

);

CREATE TABLE **maintains**(

Registration\_no INTEGER,

Employee\_no INTEGER,

Skill VARCHAR,

PRIMARY KEY (Registration\_no, Employee\_no)

FOREIGN KEY (Registration\_no) REFERENCES Airplane

FOREIGN KEY (Employee\_no) REFERENCES Employee

FOREIGN KEY (skill)

);

CREATE TABLE **operates**(

Employee\_id INTEGER,

Projected\_depature\_time DATETIME,

Since DATE

Flight\_no INTEGER,

PRIMARY KEY (Employee\_id, Projected\_depature\_time, Flight\_no),

FOREIGN KEY (Employee\_id,) REFERENCES Employee,

FOREIGN KEY (since) REFERENCES Pilot,

FOREIGN KEY (Projected\_depature\_time,Flight\_no) REFERENCES Flight

);

CREATE TABLE **participates**(

Servic\_years INTEGER,

Employee\_id INTEGER,

Projected\_depature\_time DATETIME,

Flight\_no INTEGER,

PRIMARY KEY (Employee\_id, Projected\_depature\_time, Flight\_no),

FOREIGN KEY (Employee\_id,) REFERENCES Employee,

FOREIGN KEY (Service\_years) REFERENCES Flight\_Attendant,

FOREIGN KEY (Projected\_depature\_time, flight\_no) REFERENCES Flight

);

CREATE TABLE **contains**

(

quantity INTEGER,

dish\_order\_Id INTEGER,

Name VARCHAR(40),

PRIMARY KEY (dish\_order\_id,name) ,

FOREIGN KEY(dish\_order\_id) REFERENCES Dish\_Order

FOREIGN KEY(name) REFERENCES Dish

);

CREATE TABLE **reserves**(

Purchased\_datetime DATETIME,

Purchase\_price INTEGER,

Quantity INTEGER,

flight\_no VARCHAR(40),

Project\_dept\_time DATETIME,

customer\_Id INTEGER,

PRIMARY KEY (customer\_id, project\_dept\_time, flight\_no),

FOREIGN KEY (customer\_id) REFERENCES Customer

FOREIGN KEY (project\_dept\_time) REFERENCES Flight

FOREIGN KEY (flight\_no) REFERENCES Flight

);

CREATE TABLE **Customer**

(

customer\_id INTEGER,

SSN INTEGER,

Gender CHAR(40),

Number INTEGER,

Email VARCHAR(40),

City VARCHAR(40),

Street VARCHAR(40),

State VARCHAR(40),

zipcode INTEGER,

PRIMARY KEY (customer\_id)  
);

CREATE TABLE **Customer\_Credit\_card**(

Number INTEGER,

Exp\_date DATE,

customer\_id INTEGER NOT NULL,

PRIMARY KEY (customer\_id),

FOREIGN KEY (customer\_id) REFERENCES Customer ON DELETE CASCADE

);

CREATE TABLE **lounge**

(

lounge\_id INTEGER,

Lounge location VARCHAR(40),

IATA\_code VARCHAR(3) NOT NULL,

PRIMARY KEY (lounge\_id)

FOREIGN KEY(IATA\_code) REFERENCES Airport ON DELETE CASCADE

);

CREATE TABLE **DishOrder**

(

dish\_order\_id INTEGER,

Total amount DECIMAL(X,Y),

Order\_datetime DATETIME,

Customer\_id INTEGER NOT NULL,

Lounge\_id INTEGER,

PRIMARY KEY (dish\_order\_id),

FOREIGN KEY(Lounge\_id) REFERENCES Lounge ON DELETE SET NULL,

FOREIGN KEY (customer\_id) REFERENCES Customer ON DELETE CASCADE

);

CREATE TABLE **Dish**

(

name VARCHAR(40),

price DECIMAL(X,Y),

lounge\_id INTEGER NOT NULL,

PRIMARY KEY (name,lounge\_id),

FOREIGN KEY (lounge\_id) REFERENCES Lounge ON DELETE CASCADE

);