-- Passenger Table

CREATE TABLE PASSENGER (

PASSENGER\_ID INT PRIMARY KEY NOT NULL,

SURNAME VARCHAR(255),

NAME VARCHAR(255)

);

-- Staff Table

CREATE TABLE STAFF (

EMPNUM INT PRIMARY KEY NOT NULL,

SURNAME VARCHAR(255),

NAME VARCHAR(255),

SALARY INT

);

-- City Table

CREATE TABLE CITY (

CITY\_ID INT PRIMARY KEY NOT NULL,

CITY\_NAME VARCHAR(255)

);

-- Flight Table

CREATE TABLE FLIGHT (

FLIGHTNUM INT PRIMARY KEY NOT NULL,

ORIGIN INT,

DESTINATION INT,

DATE DATETIME

);

-- Flight Destination Table

CREATE TABLE FLIGHT\_DESTINATION (

DESTINATION INT PRIMARY KEY NOT NULL,

CITY\_ID INT,

DEPARTURE\_TIME DATETIME,

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

FOREIGN KEY (FLIGHTNUM) REFERENCES FLIGHT(FLIGHTNUM)

);

-- Flight Origin Table

CREATE TABLE FLIGHTORIGIN (

ORIGIN INT PRIMARY KEY NOT NULL,

CITY\_ID INT,

FOREIGN KEY (FLIGHTNUM) REFERENCES FLIGHT(FLIGHTNUM),

FOREIGN KEY (CITY\_ID) REFERENCES CITY(CITY\_ID)

);

-- Intermediate City Table

CREATE TABLE INTERMEDIATE\_CITY (

FLIGHTNUM INT,

CITY\_ID INT,

INTCITYNAME VARCHAR(255),

ARRIVALTIME DATETIME,

DEPARTURE\_TIME DATETIME,

PRIMARY KEY (FLIGHTNUM, CITY\_ID)

);

-- Add Foreign Keys for FLIGHT Table

ALTER TABLE FLIGHT

ADD CONSTRAINT FK\_FLIGHT\_ORIGIN

FOREIGN KEY (ORIGIN) REFERENCES FLIGHTORIGIN(ORIGIN);

ALTER TABLE FLIGHT

ADD CONSTRAINT FK\_FLIGHT\_DESTINATION

FOREIGN KEY (DESTINATION) REFERENCES FLIGHT\_DESTINATION(DESTINATION);

-- Passenger Data table

CREATE TABLE PASSENGER\_DATA (

PASSENGER\_ID INT PRIMARY KEY NOT NULL,

ADDRESS VARCHAR(255),

PHONE INT

);

-- Add Foreign Key for PASSENGER\_DATA Table

ALTER TABLE PASSENGER\_DATA

ADD CONSTRAINT FK\_PASSENGER\_DATA

FOREIGN KEY (PASSENGER\_ID) REFERENCES PASSENGER(PASSENGER\_ID);

-- Staff Data Table

CREATE TABLE STAFF\_DATA (

EMPNUM INT PRIMARY KEY NOT NULL,

ADDRESS VARCHAR(255),

PHONE INT

);

-- Add Foreign Key for STAFF\_DATA Table

ALTER TABLE STAFF\_DATA

ADD CONSTRAINT FK\_STAFF\_DATA

FOREIGN KEY (EMPNUM) REFERENCES STAFF(EMPNUM);

-- Pilot Table

CREATE TABLE PILOT (

EMPNUM INT PRIMARY KEY NOT NULL,

PILOTRATING VARCHAR(255)

);

-- Add Foreign Key for PILOT Table

ALTER TABLE PILOT

ADD CONSTRAINT FK\_PILOT

FOREIGN KEY (EMPNUM) REFERENCES STAFF(EMPNUM);

-- Crew Table

CREATE TABLE CREW (

CREW\_ID INT PRIMARY KEY NOT NULL,

FLIGHTNUM INT,

EMPNUM INT

);

-- Add Foreign Keys for CREW Table

ALTER TABLE CREW

ADD CONSTRAINT FK\_CREW\_FLIGHT

FOREIGN KEY (FLIGHTNUM) REFERENCES FLIGHT(FLIGHTNUM);

ALTER TABLE CREW

ADD CONSTRAINT FK\_CREW\_EMP

FOREIGN KEY (EMPNUM) REFERENCES STAFF(EMPNUM);

-- Airplane Table

CREATE TABLE AIRPLANE (

SERIALNUM INT PRIMARY KEY NOT NULL,

MODELNUM INT,

MANUFACTURER VARCHAR(255)

);

-- Assigned Plane Table

CREATE TABLE ASSIGNEDPLANE (

ASSIGNMENT\_ID INT PRIMARY KEY NOT NULL,

FLIGHTNUM INT,

SERIALNUM INT

);

-- Add Foreign Keys for ASSIGNEDPLANE Table

ALTER TABLE ASSIGNEDPLANE

ADD CONSTRAINT FK\_ASSIGNEDPLANE\_FLIGHT

FOREIGN KEY (FLIGHTNUM) REFERENCES FLIGHT(FLIGHTNUM);

ALTER TABLE ASSIGNEDPLANE

ADD CONSTRAINT FK\_ASSIGNEDPLANE\_AIRPLANE

FOREIGN KEY (SERIALNUM) REFERENCES AIRPLANE(SERIALNUM);

-- Passenger Booking Table

CREATE TABLE PASSENGER\_BOOKING (

BOOKING\_ID INT PRIMARY KEY NOT NULL,

FLIGHTNUM INT,

PASSENGER\_ID INT

);

-- Add Foreign Keys for PASSENGER\_BOOKING Table

ALTER TABLE PASSENGER\_BOOKING

ADD CONSTRAINT FK\_PASSENGER\_BOOKING\_PASSENGER

FOREIGN KEY (PASSENGER\_ID) REFERENCES PASSENGER(PASSENGER\_ID);

ALTER TABLE PASSENGER\_BOOKING

ADD CONSTRAINT FK\_PASSENGER\_BOOKING\_FLIGHT

FOREIGN KEY (FLIGHTNUM) REFERENCES FLIGHT(FLIGHTNUM);