IST 659 : Lab-5

1. Problem Description: For this lab, assume we created the ERD model for the SUAirways database.

- SQL statements:

```
CREATE TABLE StatesTable /*creates a Table consisting of State and its abbreviation*/
(
stateAbbr VARCHAR(2) NOT NULL,  /*creates a a variable character which is required*/
stateName VARCHAR(20) NOT NULL, /*creates a a variable character which is required*/
CONSTRAINT StatesTable_PK PRIMARY KEY (stateAbbr) /*assigns primary key*/
);

CREATE TABLE StatusTable /*creates a Table which indicates the flight status*/
(
statusID CHAR(1) NOT NULL CHECK (statusID IN ('O','D','C')), /*creates a character to
store status of flight*/
description VARCHAR(20) NOT NULL, /*creates a variable character for description*/
CONSTRAINT StatusTable_PK PRIMARY KEY (statusID) /*assigns primary key*/
);

CREATE TABLE AircraftSpecsTable /*creates a Table which indicates the specifications of
the aircraft*/
(
aircraftTypeID CHAR(8) NOT NULL, /*creates a character to store the type ID of the
aircraft*/
aircraftVersion VARCHAR(10) NOT NULL,  /*creates a variable character to store the
version of the aircraft*/
cabinNumOfSeats INT, /*creates an integer to store the cabin number of seats in the
aircraft*/
fullCapacity INT NOT NULL,  /*creates an integer to store the capacity of seats in the
aircraft*/
CONSTRAINT AircraftSpecsTable_PK PRIMARY KEY (aircraftTypeID) /*assigns primary key*/
);

CREATE TABLE CityTable /*creates a Table consisting of City attributes*/
(
cityKey CHAR(8) NOT NULL,  /*creates a character indicating a city with a unique key*/
cityName VARCHAR(25) NOT NULL, /*creates a variable character to store the name of the
city*/
stateAbbr VARCHAR(2) NOT NULL, /*creates a variable character to store the state
abbreviation which is present in the parent table*/
CONSTRAINT CityTable_PK PRIMARY KEY (cityKey), /*assigns primary key*/
CONSTRAINT CityTable_FK FOREIGN KEY (stateAbbr) REFERENCES StatesTable(stateAbbr)
/*assigns foreign key*/
);

CREATE TABLE AirportTable /*creates a Table to store airport details*/
(
airportID CHAR(3) NOT NULL, /*creates a character indicating an airport ID with a unique
key*/
```

```
airportName VARCHAR(45) NOT NULL UNIQUE, /*creates a variable character to store the
airport name*/
cityKey CHAR(8) NOT NULL, /*creates a character to identify the city using cityID which
is present in the parent table*/
CONSTRAINT AirportTable_PK PRIMARY KEY (airportID), /*assigns primary key*/
CONSTRAINT AirportTable_FK FOREIGN KEY (cityKey) REFERENCES CityTable(cityKey) /*assigns
foreign key*/
);

CREATE TABLE FlightRouteTable /*creates a Table to store flight route deails*/
(
flightNumber VARCHAR(6) NOT NULL, /*creates a variable character to store flight number*/
departAirport CHAR(3) NOT NULL, /*creates a character indicating departing airport*/
arriveAirport CHAR(3) NOT NULL, /*creates a character indicating arrival airport*/
scheduledDepartTime TIME NOT NULL, /*creates a time attribute indicating scheduled
departing time from the airport*/
scheduledArrivalTime TIME NOT NULL, /*creates a time attribute indicating scheduled
arrival time at the airport*/
CONSTRAINT FlightRouteTable_PK PRIMARY KEY (flightNumber), /*assigns primary key*/
CONSTRAINT FlightRouteTable_FK_departAirport FOREIGN KEY (departAirport) REFERENCES
AirportTable(airportID), /*assigns foreign key*/
CONSTRAINT FlightRouteTable_FK_arriveAirport FOREIGN KEY (arriveAirport) REFERENCES
AirportTable(airportID) /*assigns foreign key*/
);

CREATE TABLE AirplaneTable /*creates a Table to store airplane details*/
(
airplaneID CHAR(8) NOT NULL, /*creates a character to uniquely identify th airplane*/
aircraftTypeID CHAR(8) NOT NULL, /*creates a character indicating the type of the
aircraft*/
purchaseDate DATE DEFAULT '01/01/2012', /*creates a date attribute indicating the
purchase date of the airplane*/
CONSTRAINT AirplaneTable_PK PRIMARY KEY (airplaneID), /*assigns primary key*/
CONSTRAINT AirplaneTable_FK FOREIGN KEY (aircraftTypeID) REFERENCES
AircraftSpecsTable(aircraftTypeID) /*assigns foreign key*/
);

CREATE TABLE FlightScheduleTable /*creates a Table to store flight schedules*/
(
flightNumber VARCHAR(6) NOT NULL, /*creates a variable character indicating scheduled
arriving time at the airport*/
flightDate DATE NOT NULL, /*creates a date attribute to store the flight date*/
statusID CHAR(1) NOT NULL CHECK (statusID IN ('O','D','C')), /*creates a character
indicating status of the flight*/
airplaneID CHAR(8) NOT NULL, /*creates a character to identify the airplane uniquely*/
delayDepartTime TIME, /*creates a time attribute to indicate if any delay for departure*/
delayArrivalTime TIME, /*creates a time attribute to indicate if any delay for arrival*/
CONSTRAINT FlightScheduleTable_PK PRIMARY KEY (flightNumber, flightDate), /*assigns
primary key*/
CONSTRAINT FlightScheduleTable_FK_flightNumber FOREIGN KEY (flightNumber) REFERENCES
FlightRouteTable(flightNumber), /*assigns foreign key*/
CONSTRAINT FlightScheduleTable_FK_statusID FOREIGN KEY (statusID) REFERENCES
StatusTable(statusID), /*assigns foreign key*/
CONSTRAINT FlightScheduleTable_FK_airplaneID FOREIGN KEY (airplaneID) REFERENCES
AirplaneTable(airplaneID), /*assigns foreign key*/
);

/*Inserting data*(instances) into the States Table*/
```

```
INSERT INTO StatesTable VALUES('CA','California');
INSERT INTO StatesTable VALUES('DC','Washington, D.C.')
INSERT INTO StatesTable VALUES('FL','Florida')
INSERT INTO StatesTable VALUES('IL','Illinois');
INSERT INTO StatesTable VALUES('MA','Massachusetts');
INSERT INTO StatesTable VALUES('NY','New York');
INSERT INTO StatesTable VALUES('TX','Texas');

SELECT * from StatesTable; /*Viewing data*(instances) in the States Table*/

/*Inserting data*(instances) into the City Table*/
INSERT INTO CityTable VALUES('C001','Los Angeles','CA');
INSERT INTO CityTable VALUES('C002','San Francisco','CA');
INSERT INTO CityTable VALUES('C003','Washington, D.C.','DC');
INSERT INTO CityTable VALUES('C004','Miami','FL');
INSERT INTO CityTable VALUES('C005','Orlando','FL');
INSERT INTO CityTable VALUES('C006','Chicago','IL');
INSERT INTO CityTable VALUES('C007','Boston','MA');
INSERT INTO CityTable VALUES('C008','New York','NY');
INSERT INTO CityTable VALUES('C009','Syracuse','NY');

SELECT * from CityTable; /*Viewing data*(instances) in the City Table*/

/*Inserting data*(instances) into the Airport Table*/
INSERT INTO AirportTable VALUES('BOS','Patel Edward Logan International Airport','C007');
INSERT INTO AirportTable VALUES('DCA','Patel Ronald Reagan National Airport','C003');
INSERT INTO AirportTable VALUES('IAD','Patel Washington Dulles International
Airport','C003');
INSERT INTO AirportTable VALUES('JFK','Patel John F. Kennedy International
Airport','C008');
INSERT INTO AirportTable VALUES('LAX','Patel Los Angeles International Airport','C001');
INSERT INTO AirportTable VALUES('LGA','Patel LaGuardia Airport','C008');
INSERT INTO AirportTable VALUES('MCO','Patel Orlando International Airport','C005');
INSERT INTO AirportTable VALUES('MDW','Patel Chicago Midway International
Airport','C006');
INSERT INTO AirportTable VALUES('MIA','Patel Miami International Airport','C004');
INSERT INTO AirportTable VALUES('ORD','Patel Chicago OHare International
Airport','C006');
INSERT INTO AirportTable VALUES('SFO','Patel San Francisco International
Airport','C002');
INSERT INTO AirportTable VALUES('SYR','Patel Syracuse Hancock International
Airport','C009');

SELECT * from AirportTable; /*Viewing data*(instances) in the States Table*/

/*Inserting data*(instances) into the Flight Route Table*/
INSERT INTO FlightRouteTable
VALUES('3310','SYR','JFK','08:00:00.0000000','09:02:00.0000000');
INSERT INTO FlightRouteTable
VALUES('3312','JFK','SYR','12:20:00.0000000','13:30:00.0000000');
INSERT INTO FlightRouteTable
VALUES('3426','LAX','ORD','11:15:00.0000000','15:05:00.0000000');
INSERT INTO FlightRouteTable
VALUES('5063','BOS','MCO','14:30:00.0000000','18:45:00.0000000');

SELECT * from FlightRouteTable; /*Viewing data*(instances) in the Flight Route Table*/

/*Inserting data*(instances) into the Status Table*/
```

```
INSERT INTO StatusTable VALUES('C','Canceled');
INSERT INTO StatusTable VALUES('D','Delay');
INSERT INTO StatusTable VALUES('O','On Time');

SELECT * from StatusTable; /*Viewing data*(instances) in the Status Table*/

/*Inserting data*(instances) into the Aircraft Specs Table*/
INSERT INTO AircraftSpecsTable VALUES('AIR1','A321-200','200','7930');
INSERT INTO AircraftSpecsTable VALUES('AIR2','737-600ER','132','6875');
INSERT INTO AircraftSpecsTable VALUES('BOE1','747-400ER','416','63705');
INSERT INTO AircraftSpecsTable VALUES('BOE2','767-300ER','350','23980');
INSERT INTO AircraftSpecsTable VALUES('BOE3','737-600ER','132','6875');

SELECT * from AircraftSpecsTable; /*Viewing data*(instances) from the Aircraft Specs
Table*/

/*Inserting data*(instances) into the Airplane Table*/
INSERT INTO AirplaneTable VALUES('AP098640','AIR2','2013-03-01');
INSERT INTO AirplaneTable VALUES('AP239471','AIR1','1900-01-01');
INSERT INTO AirplaneTable VALUES('AP309814','BOE2','2012-05-22');
INSERT INTO AirplaneTable VALUES('AP629342','BOE1','1900-01-01');
INSERT INTO AirplaneTable VALUES('AP872139','BOE3','1900-01-01');
INSERT INTO AirplaneTable VALUES('AP998911','BOE2','1900-01-01');

SELECT * from AirplaneTable; /*Viewing data*(instances) from the Airplane Table*/

/*Inserting data*(instances) into the Flight Schedule Table*/
INSERT INTO FlightScheduleTable(flightNumber,flightDate,statusID,airplaneID)
VALUES('3310','2014-02-10','O','AP629342');
INSERT INTO FlightScheduleTable(flightNumber,flightDate,statusID,airplaneID)
VALUES('3310','2014-02-11','O','AP629342');
INSERT INTO FlightScheduleTable(flightNumber,flightDate,statusID,airplaneID)
VALUES('3312','2014-02-10','O','AP872139');
INSERT INTO FlightScheduleTable(flightNumber,flightDate,statusID,airplaneID)
VALUES('3426','2014-02-12','O','AP239471');
INSERT INTO FlightScheduleTable VALUES('5063','2014-02-
13','D','AP309814','15:40:00.0000000','20:05:00.0000000');

SELECT * from FlightScheduleTable; /*Viewing data*(instances) from the Flight Schedule
Table*/
```

Results

1. Create StatesTable:

```
CREATE TABLE StatesTable /*creates a Table consisting of State and its abbreviation*/
(
stateAbbr VARCHAR(2) NOT NULL,  /*creates a a variable character which is required*/
stateName VARCHAR(20) NOT NULL, /*creates a a variable character which is required*/
CONSTRAINT StatesTable_PK PRIMARY KEY (stateAbbr) /*assigns primary key*/
);
```

Insert and display StatesTable:

```
/*Inserting data*(instances) into the States Table*/
INSERT INTO StatesTable VALUES('CA','California');
INSERT INTO StatesTable VALUES('DC','Washington, D.C.')
INSERT INTO StatesTable VALUES('FL','Florida')
INSERT INTO StatesTable VALUES('IL','Illinois');
INSERT INTO StatesTable VALUES('MA','Massachusetts');
INSERT INTO StatesTable VALUES('NY','New York');
INSERT INTO StatesTable VALUES('TX','Texas');

SELECT * from StatesTable; /*Viewing data*(instances) in the States Table*/
```

Results Messages

	stateAbbr	stateName
1	CA	California
2	DC	Washington, D.C.
3	FL	Florida
4	IL	Illinois
5	MA	Massachusetts
6	NY	New York
7	TX	Texas

2. Create StatusTable

```
CREATE TABLE StatusTable /*creates a Table which indicates the flight status*/
(
statusID CHAR(1) NOT NULL CHECK (statusID IN ('O','D','C')), /*creates a character to store status of flight*/
description VARCHAR(20) NOT NULL, /*creates a variable character for description*/
CONSTRAINT StatusTable_PK PRIMARY KEY (statusID) /*assigns primary key*/
);
```

Insert and display StatusTable

```
/*Inserting data*(instances) into the Status Table*/
INSERT INTO StatusTable VALUES('C','Canceled');
INSERT INTO StatusTable VALUES('D','Delay');
INSERT INTO StatusTable VALUES('O','On Time');

SELECT * from StatusTable; /*Viewing data*(instances) in the Status Table*/
```

Results Messages

	statusID	description
1	C	Canceled
2	D	Delay
3	O	On Time

3. Create AircraftSpecsTable:

```
CREATE TABLE AircraftSpecsTable /*creates a Table which indicates the specifications of the aircraft*/
(
aircraftTypeID CHAR(8) NOT NULL, /*creates a character to store the type ID of the aircraft*/
aircraftVersion VARCHAR(10) NOT NULL,  /*creates a variable character to store the version of the aircraft*/
cabinNumOfSeats INT, /*creates an integer to store the cabin number of seats in the aircraft*/
fullCapacity INT NOT NULL,  /*creates an integer to store the capacity of seats in the aircraft*/
CONSTRAINT AircraftSpecsTable_PK PRIMARY KEY (aircraftTypeID) /*assigns primary key*/
);
```

Insert and Display AircraftSpecsTable

```
/*Inserting data*(instances) into the Aircraft Specs Table*/
INSERT INTO AircraftSpecsTable VALUES('AIR1','A321-200','200','7930');
INSERT INTO AircraftSpecsTable VALUES('AIR2','737-600ER','132','6875');
INSERT INTO AircraftSpecsTable VALUES('BOE1','747-400ER','416','63705');
INSERT INTO AircraftSpecsTable VALUES('BOE2','767-300ER','350','23980');
INSERT INTO AircraftSpecsTable VALUES('BOE3','737-600ER','132','6875');

SELECT * from AircraftSpecsTable; /*Viewing data*(instances) from the Aircraft Specs Table*/
```

Results Messages

	aircraftTypeID	aircraftVersion	cabinNumOfSeats	fullCapacity
1	AIR1	A321-200	200	7930
2	AIR2	737-600ER	132	6875
3	BOE1	747-400ER	416	63705
4	BOE2	767-300ER	350	23980
5	BOE3	737-600ER	132	6875

4. Create CityTable

```
CREATE TABLE CityTable /*creates a Table consisting of City attributes*/
(
cityKey CHAR(8) NOT NULL,  /*creates a character indicating a city with a unique key*/
cityName VARCHAR(25) NOT NULL, /*creates a variable character to store the name of the city*/
stateAbbr VARCHAR(2) NOT NULL, /*creates a variable character to store the state abbreviation which is present in the parer
CONSTRAINT CityTable_PK PRIMARY KEY (cityKey), /*assigns primary key*/
CONSTRAINT CityTable_FK FOREIGN KEY (stateAbbr) REFERENCES StatesTable(stateAbbr) /*assigns foreign key*/
);
```

Insert and Display CityTable

```
/*Inserting data*(instances) into the City Table*/
INSERT INTO CityTable VALUES('C001','Los Angeles','CA');
INSERT INTO CityTable VALUES('C002','San Francisco','CA');
INSERT INTO CityTable VALUES('C003','Washington, D.C.','DC');
INSERT INTO CityTable VALUES('C004','Miami','FL');
INSERT INTO CityTable VALUES('C005','Orlando','FL');
INSERT INTO CityTable VALUES('C006','Chicago','IL');
INSERT INTO CityTable VALUES('C007','Boston','MA');
INSERT INTO CityTable VALUES('C008','New York','NY');
INSERT INTO CityTable VALUES('C009','Syracuse','NY');

SELECT * from CityTable; /*Viewing data*(instances) in the City Table*/
```

Results Messages

	cityKey	cityName	stateAbbr
1	C001	Los Angeles	CA
2	C002	San Francisco	CA
3	C003	Washington, D.C.	DC
4	C004	Miami	FL
5	C005	Orlando	FL
6	C006	Chicago	IL
7	C007	Boston	MA
8	C008	New York	NY
9	C009	Syracuse	NY

5. Insert AirportTable

```
CREATE TABLE AirportTable /*creates a Table to store airport details*/
(
airportID CHAR(3) NOT NULL, /*creates a character indicating an airport ID with a unique key*/
airportName VARCHAR(45) NOT NULL UNIQUE, /*creates a variable character to store the airport name*/
cityKey CHAR(8) NOT NULL, /*creates a character to identify the city using cityID which is present in the parent table*/
CONSTRAINT AirportTable_PK PRIMARY KEY (airportID), /*assigns primary key*/
CONSTRAINT AirportTable_FK FOREIGN KEY (cityKey) REFERENCES CityTable(cityKey) /*assigns foreign key*/
);
```

Insert and Display AirportTable

```
/*Inserting data*(instances) into the Airport Table*/
INSERT INTO AirportTable VALUES('BOS','Patel Edward Logan International Airport','C007');
INSERT INTO AirportTable VALUES('DCA','Patel Ronald Reagan National Airport','C003');
INSERT INTO AirportTable VALUES('IAD','Patel Washington Dulles International Airport','C003');
INSERT INTO AirportTable VALUES('JFK','Patel John F. Kennedy International Airport','C008');
INSERT INTO AirportTable VALUES('LAX','Patel Los Angeles International Airport','C001');
INSERT INTO AirportTable VALUES('LGA','Patel LaGuardia Airport','C008');
INSERT INTO AirportTable VALUES('MCO','Patel Orlando International Airport','C005');
INSERT INTO AirportTable VALUES('MDW','Patel Chicago Midway International Airport','C006');
INSERT INTO AirportTable VALUES('MIA','Patel Miami International Airport','C004');
INSERT INTO AirportTable VALUES('ORD','Patel Chicago OHare International Airport','C006');
INSERT INTO AirportTable VALUES('SFO','Patel San Francisco International Airport','C002');
INSERT INTO AirportTable VALUES('SYR','Patel Syracuse Hancock International Airport','C009');

SELECT * from AirportTable;
```

Results Messages

	airportID	airportName	cityKey
1	BOS	Patel Edward Logan International Airport	C007
2	DCA	Patel Ronald Reagan National Airport	C003
3	IAD	Patel Washington Dulles International Airport	C003
4	JFK	Patel John F. Kennedy International Airport	C008
5	LAX	Patel Los Angeles International Airport	C001
6	LGA	Patel LaGuardia Airport	C008
7	MCO	Patel Orlando International Airport	C005
8	MDW	Patel Chicago Midway International Airport	C006
9	MIA	Patel Miami International Airport	C004
10	ORD	Patel Chicago OHare International Airport	C006
11	SFO	Patel San Francisco International Airport	C002
12	SYR	Patel Syracuse Hancock International Airp...	C009

6. Create FlightRouteTable

```
CREATE TABLE FlightRouteTable /*creates a Table to store flight route deails*/
(
flightNumber VARCHAR(6) NOT NULL, /*creates a variable character to store flight number*/
departAirport CHAR(3) NOT NULL, /*creates a character indicating departing airport*/
arriveAirport CHAR(3) NOT NULL, /*creates a character indicating arrival airport*/
scheduledDepartTime TIME NOT NULL, /*creates a time attribute indicating scheduled departing time from the airport*/
scheduledArrivalTime TIME NOT NULL, /*creates a time attribute indicating scheduled arrival time at the airport*/
CONSTRAINT FlightRouteTable_PK PRIMARY KEY (flightNumber), /*assigns primary key*/
CONSTRAINT FlightRouteTable_FK_departAirport FOREIGN KEY (departAirport) REFERENCES AirportTable(airportID), /*assigns fore
CONSTRAINT FlightRouteTable_FK_arriveAirport FOREIGN KEY (arriveAirport) REFERENCES AirportTable(airportID) /*assigns forei
);
```

Insert and Display FlightRouteTable

```
/*Inserting data*(instances) into the Flight Route Table*/
INSERT INTO FlightRouteTable VALUES('3310','SYR','JFK','08:00:00.0000000','09:02:00.0000000');
INSERT INTO FlightRouteTable VALUES('3312','JFK','SYR','12:20:00.0000000','13:30:00.0000000');
INSERT INTO FlightRouteTable VALUES('3426','LAX','ORD','11:15:00.0000000','15:05:00.0000000');
INSERT INTO FlightRouteTable VALUES('5063','BOS','MCO','14:30:00.0000000','18:45:00.0000000');

SELECT * from FlightRouteTable; /*Viewing data*(instances) in the Flight Route Table*/
```

Results Messages

	flightNumber	departAirport	arriveAirport	scheduledDepartTime	scheduledArrivalTime
1	3310	SYR	JFK	08:00:00.0000000	09:02:00.0000000
2	3312	JFK	SYR	12:20:00.0000000	13:30:00.0000000
3	3426	LAX	ORD	11:15:00.0000000	15:05:00.0000000
4	5063	BOS	MCO	14:30:00.0000000	18:45:00.0000000

7. Create AirplaneTable

```
CREATE TABLE AirplaneTable /*creates a Table to store airplane details*/
(
airplaneID CHAR(8) NOT NULL, /*creates a character to uniquely identify th airplane*/
aircraftTypeID CHAR(8) NOT NULL, /*creates a character indicating the type of the aircraft*/
purchaseDate DATE DEFAULT '01/01/2012', /*creates a date attribute indicating the purchase date of the airplane*/
CONSTRAINT AirplaneTable_PK PRIMARY KEY (airplaneID), /*assigns primary key*/
CONSTRAINT AirplaneTable_FK FOREIGN KEY (aircraftTypeID) REFERENCES AircraftSpecsTable(aircraftTypeID) /*assigns foreign ke
);
```

Insert and Display AirplaneTable

```
/*Inserting data*(instances) into the Airplane Table*/
INSERT INTO AirplaneTable VALUES('AP098640','AIR2','2013-03-01');
INSERT INTO AirplaneTable VALUES('AP239471','AIR1','1900-01-01');
INSERT INTO AirplaneTable VALUES('AP309814','BOE2','2012-05-22');
INSERT INTO AirplaneTable VALUES('AP629342','BOE1','1900-01-01');
INSERT INTO AirplaneTable VALUES('AP872139','BOE3','1900-01-01');
INSERT INTO AirplaneTable VALUES('AP998911','BOE2','1900-01-01');

SELECT * from AirplaneTable; /*Viewing data*(instances) from the Airplane Table*/
```

Results Messages

	airplaneID	aircraftTypeID	purchaseDate
1	AP098640	AIR2	2013-03-01
2	AP239471	AIR1	1900-01-01
3	AP309814	BOE2	2012-05-22
4	AP629342	BOE1	1900-01-01
5	AP872139	BOE3	1900-01-01
6	AP998911	BOE2	1900-01-01

8. Create FlightScheduleTable

```
CREATE TABLE FlightScheduleTable /*creates a Table to store flight schedules*/
(
flightNumber VARCHAR(6) NOT NULL, /*creates a variable character indicating scheduled arriving time at the airport*/
flightDate DATE NOT NULL, /*creates a date attribute to store the flight date*/
statusID CHAR(1) NOT NULL CHECK (statusID IN ('O','D','C')), /*creates a character indicating status of the flight*/
airplaneID CHAR(8) NOT NULL, /*creates a character to identify the airplane uniquely*/
delayDepartTime TIME, /*creates a time attribute to indicate if any delay for departure*/
delayArrivalTime TIME, /*creates a time attribute to indicate if any delay for arrival*/
CONSTRAINT FlightScheduleTable_PK PRIMARY KEY (flightNumber, flightDate), /*assigns primary key*/
CONSTRAINT FlightScheduleTable_FK_flightNumber FOREIGN KEY (flightNumber) REFERENCES FlightRouteTable(flightNumber), /*assi
CONSTRAINT FlightScheduleTable_FK_statusID FOREIGN KEY (statusID) REFERENCES StatusTable(statusID), /*assigns foreign key*/
CONSTRAINT FlightScheduleTable_FK_airplaneID FOREIGN KEY (airplaneID) REFERENCES AirplaneTable(airplaneID), /*assigns forei
);
```

Insert and display FlightScheduleTable

```
/*Inserting data*(instances) into the Flight Schedule Table*/
INSERT INTO FlightScheduleTable(flightNumber,flightDate,statusID,airplaneID) VALUES('3310','2014-02-10','O','AP629342');
INSERT INTO FlightScheduleTable(flightNumber,flightDate,statusID,airplaneID) VALUES('3310','2014-02-11','O','AP629342');
INSERT INTO FlightScheduleTable(flightNumber,flightDate,statusID,airplaneID) VALUES('3312','2014-02-10','O','AP872139');
INSERT INTO FlightScheduleTable(flightNumber,flightDate,statusID,airplaneID) VALUES('3426','2014-02-12','O','AP239471');
INSERT INTO FlightScheduleTable VALUES('5063','2014-02-13','D','AP309814','15:40:00.0000000','20:05:00.0000000');

SELECT * from FlightScheduleTable; /*Viewing data*(instances) from the Flight Schedule Table*/
```

Results Messages

	flightNumber	flightDate	statusID	airplaneID	delayDepartTime	delayArrivalTime
1	3310	2014-02-10	O	AP629342	NULL	NULL
2	3310	2014-02-11	O	AP629342	NULL	NULL
3	3312	2014-02-10	O	AP872139	NULL	NULL
4	3426	2014-02-12	O	AP239471	NULL	NULL
5	5063	2014-02-13	D	AP309814	15:40:00.0000000	20:05:00.0000000