CREATE TABLE CITY

(CNAME VARCHAR2(15) NOT NULL,

STATE VARCHAR2(15),

COUNTRY VARCHAR(30),

PRIMARY KEY(CNAME));

-- Insering values of Table: CITY--

INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES('Louisville','Kentucky','United States');

INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES ('Chandigarh','Chandigarh','India');

INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES ('Fort Worth','Texas','United States');

INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES('Delhi','Delhi','India');

INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES('Mumbai','Maharashtra','India');

INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES('San Francisco', 'California', 'United States');

INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES('Frankfurt','Hesse','Germany');

INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES('Houston','Texas','United States');

INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES('New York City','New York','United States');

INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES('Tampa', 'Florida', 'United States');

CREATE TABLE AIRPORT

(AP\_NAME VARCHAR2(100) NOT NULL,

STATE VARCHAR2(15),

COUNTRY VARCHAR(30),

CNAME VARCHAR2(15),

PRIMARY KEY(AP\_NAME),

FOREIGN KEY(CNAME) REFERENCES CITY(CNAME) ON DELETE CASCADE);

--Insering values for Table: AIRPORT--

INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME) VALUES('Louisville International Airport','Kentucky','United States','Louisville');

INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME) VALUES('Chandigarh International Airport','Chandigarh','India','Chandigarh');

INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME) VALUES('Dallas/Fort Worth International Airport','Texas','United States','Fort Worth');

INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME) VALUES('Indira GandhiInternational Airport','Delhi','India','Delhi');

INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME) VALUES('Chhatrapati Shivaji International Airport','Maharashtra','India','Mumbai');

INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME) VALUES('San Francisco International Airport','California', 'United States','San Francisco');

INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME) VALUES('Frankfurt Airport','Hesse','Germany','Frankfurt');

INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME) VALUES('George Bush Intercontinental Airport','Texas','United States','Houston');

INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME) VALUES('John F. Kennedy International Airport','New York','United States','New York City');

INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME) VALUES('Tampa International Airport','Florida', 'United States','Tampa');

CREATE TABLE AIRLINE

(AIRLINEID VARCHAR(3) NOT NULL,

AL\_NAME VARCHAR2(50),

THREE\_DIGIT\_CODE VARCHAR(3),

PRIMARY KEY(AIRLINEID));

-- Insering values for Table: AIRLINE --

INSERT INTO AIRLINE (AIRLINEID, AL\_NAME, THREE\_DIGIT\_CODE) VALUES('AA','American Airlines','001');

INSERT INTO AIRLINE (AIRLINEID, AL\_NAME, THREE\_DIGIT\_CODE) VALUES('AI','Air India Limited','098');

INSERT INTO AIRLINE (AIRLINEID, AL\_NAME, THREE\_DIGIT\_CODE) VALUES('LH','Lufthansa', '220');

INSERT INTO AIRLINE (AIRLINEID, AL\_NAME, THREE\_DIGIT\_CODE) VALUES('BA','British Airways','125');

INSERT INTO AIRLINE (AIRLINEID, AL\_NAME, THREE\_DIGIT\_CODE) VALUES('QR','Qatar Airways','157');

INSERT INTO AIRLINE (AIRLINEID, AL\_NAME, THREE\_DIGIT\_CODE) VALUES('9W','Jet Airways','589');

INSERT INTO AIRLINE (AIRLINEID, AL\_NAME, THREE\_DIGIT\_CODE) VALUES('EK','Emirates','176');

INSERT INTO AIRLINE (AIRLINEID, AL\_NAME, THREE\_DIGIT\_CODE) VALUES('EY','Ethiad Airways','607');

CREATE TABLE CONTAINS

(AIRLINEID VARCHAR(3) NOT NULL,

AP\_NAME VARCHAR2(100) NOT NULL,

PRIMARY KEY(AIRLINEID, AP\_NAME),

FOREIGN KEY(AIRLINEID) REFERENCES AIRLINE(AIRLINEID) ON DELETE CASCADE,

FOREIGN KEY(AP\_NAME) REFERENCES AIRPORT(AP\_NAME) ON DELETE CASCADE);

-- Insering values into Table: Contains--

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('AA','Louisville International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('AA','John F. Kennedy International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('AA','George Bush Intercontinental Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('AA','San Francisco International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('AA','Tampa International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('AI','Chandigarh International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('AI','Dallas/Fort Worth International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('AI','Indira GandhiInternational Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('AI','Chhatrapati Shivaji International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('AI','George Bush Intercontinental Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('LH','Chhatrapati Shivaji International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('LH','Frankfurt Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('LH','John F. Kennedy International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('LH','San Francisco International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('LH','Dallas/Fort Worth International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('BA','John F. Kennedy International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('BA','Chhatrapati Shivaji International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('BA','Chandigarh International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('BA','Frankfurt Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('BA','San Francisco International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('QR','Chhatrapati Shivaji International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('QR','Dallas/Fort Worth International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('QR','John F. Kennedy International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('QR','Tampa International Airport');

INSERT INTO CONTAINS (AIRLINEID, AP\_NAME) VALUES('QR','Louisville International Airport');

CREATE TABLE FLIGHT

(FLIGHT\_CODE VARCHAR(10) NOT NULL,

SOURCE VARCHAR(3),

DESTINATION VARCHAR(3),

ARRIVAL VARCHAR2(10),

DEPARTURE VARCHAR2(10),

STATUS VARCHAR(10),

DURATION VARCHAR2(30),

FLIGHTTYPE VARCHAR(10),

LAYOVER\_TIME VARCHAR2(30),

NO\_OF\_STOPS INT,

AIRLINEID VARCHAR(3),

PRIMARY KEY(FLIGHT\_CODE),

FOREIGN KEY(AIRLINEID) REFERENCES AIRLINE(AIRLINEID) ON DELETE CASCADE);

INSERT INTO FLIGHT(FLIGHT\_CODE, SOURCE, DESTINATION, ARRIVAL, DEPARTURE, STATUS, DURATION, FLIGHTTYPE, LAYOVER\_TIME, NO\_OF\_STOPS, AIRLINEID)

VALUES('AI2014','BOM','DFW','02:10','03:15','On-time','24hr','Connecting',3,1,'AI');

INSERT INTO FLIGHT(FLIGHT\_CODE, SOURCE, DESTINATION, ARRIVAL, DEPARTURE, STATUS, DURATION, FLIGHTTYPE, LAYOVER\_TIME, NO\_OF\_STOPS, AIRLINEID)

VALUES('QR2305','BOM','DFW','13:00','13:55','Delayed','21hr','Non-stop',0,0,'QR');

INSERT INTO FLIGHT(FLIGHT\_CODE, SOURCE, DESTINATION, ARRIVAL, DEPARTURE, STATUS, DURATION, FLIGHTTYPE, LAYOVER\_TIME, NO\_OF\_STOPS, AIRLINEID)

VALUES('EY1234','JFK','TPA','19:20','20:05','On-time','16hrs','Connecting',5,2,'EY');

INSERT INTO FLIGHT(FLIGHT\_CODE, SOURCE, DESTINATION, ARRIVAL, DEPARTURE, STATUS, DURATION, FLIGHTTYPE, LAYOVER\_TIME, NO\_OF\_STOPS, AIRLINEID)

VALUES('LH9876','JFK','BOM','05:50','06:35','On-time','18hrs','Non-stop',0,0,'LH');

INSERT INTO FLIGHT(FLIGHT\_CODE, SOURCE, DESTINATION, ARRIVAL, DEPARTURE, STATUS, DURATION, FLIGHTTYPE, LAYOVER\_TIME, NO\_OF\_STOPS, AIRLINEID)

VALUES('BA1689','FRA','DEL','10:20','10:55','On-time','14hrs','Non-stop',0,0,'BA');

INSERT INTO FLIGHT(FLIGHT\_CODE, SOURCE, DESTINATION, ARRIVAL, DEPARTURE, STATUS, DURATION, FLIGHTTYPE, LAYOVER\_TIME, NO\_OF\_STOPS, AIRLINEID)

VALUES('AA4367','SFO','FRA','18:10','18:55','On-time','21hrs','Non-stop',0,0,'AA');

INSERT INTO FLIGHT(FLIGHT\_CODE, SOURCE, DESTINATION, ARRIVAL, DEPARTURE, STATUS, DURATION, FLIGHTTYPE, LAYOVER\_TIME, NO\_OF\_STOPS, AIRLINEID)

VALUES('QR1902','IXC','IAH','22:00','22:50','Delayed','28hrs','Non-stop',5,1,'QR');

INSERT INTO FLIGHT(FLIGHT\_CODE, SOURCE, DESTINATION, ARRIVAL, DEPARTURE, STATUS, DURATION, FLIGHTTYPE, LAYOVER\_TIME, NO\_OF\_STOPS, AIRLINEID)

VALUES('BA3056','BOM','DFW','02:15','02:55','On-time','29hrs','Connecting',3,1,'BA');

INSERT INTO FLIGHT(FLIGHT\_CODE, SOURCE, DESTINATION, ARRIVAL, DEPARTURE, STATUS, DURATION, FLIGHTTYPE, LAYOVER\_TIME, NO\_OF\_STOPS, AIRLINEID)

VALUES('EK3456','BOM','SFO','18:50','19:40','On-time','30hrs','Non-stop',0,0,'EK');

INSERT INTO FLIGHT(FLIGHT\_CODE, SOURCE, DESTINATION, ARRIVAL, DEPARTURE, STATUS, DURATION, FLIGHTTYPE, LAYOVER\_TIME, NO\_OF\_STOPS, AIRLINEID)

VALUES('9W2334','IAH','DEL','23:00','13:45','On-time','23hrs','Direct',0,0,'9W');

CREATE TABLE PASSENGER1

(PID INT NOT NULL,

PASSPORTNO VARCHAR(10) NOT NULL,

PRIMARY KEY(PID, PASSPORTNO));

-- Insering values in table: PASSENGER1--

INSERT INTO PASSENGER1(PID, PASSPORTNO) VALUES(1,'A1234568');

INSERT INTO PASSENGER1(PID, PASSPORTNO) VALUES(2,'B9876541');

INSERT INTO PASSENGER1(PID, PASSPORTNO) VALUES(3,'C2345698');

INSERT INTO PASSENGER1(PID, PASSPORTNO) VALUES(4,'D1002004');

INSERT INTO PASSENGER1(PID, PASSPORTNO) VALUES(5,'X9324666');

INSERT INTO PASSENGER1(PID, PASSPORTNO) VALUES(6,'B8765430');

INSERT INTO PASSENGER1(PID, PASSPORTNO) VALUES(7,'J9801235');

INSERT INTO PASSENGER1(PID, PASSPORTNO) VALUES(8,'A1122334');

INSERT INTO PASSENGER1(PID, PASSPORTNO) VALUES(9,'Q1243567');

INSERT INTO PASSENGER1(PID, PASSPORTNO) VALUES(10,'S1243269');

INSERT INTO PASSENGER1(PID, PASSPORTNO) VALUES(11,'E3277889');

INSERT INTO PASSENGER1(PID, PASSPORTNO) VALUES(12,'K3212322');

INSERT INTO PASSENGER1(PID, PASSPORTNO) VALUES(13,'P3452390');

INSERT INTO PASSENGER1(PID, PASSPORTNO) VALUES(14,'W7543336');

INSERT INTO PASSENGER1(PID, PASSPORTNO) VALUES(15,'R8990566');

CREATE TABLE PASSENGER2

(PASSPORTNO VARCHAR(10) NOT NULL,

FNAME VARCHAR2(20),

M VARCHAR(1),

LNAME VARCHAR2(20),

ADDRESS VARCHAR2(100),

PHONE INT,

AGE INT,

SEX VARCHAR(1),

PRIMARY KEY(PASSPORTNO));

--iNSERTING VALUES IN TABLE: PASSENGER2--

INSERT INTO PASSENGER2(PASSPORTNO,FNAME,M,LNAME,ADDRESS,PHONE,AGE,SEX)

VALUES('A1234568','ALEN','M','SMITH','2230 NORTHSIDE, APT 11, ALBANY, NY',8080367290,30,'M');

INSERT INTO PASSENGER2(PASSPORTNO,FNAME,M,LNAME,ADDRESS,PHONE,AGE,SEX)

VALUES('B9876541','ANKITA','V','AHIR','3456 VIKAS APTS, APT 102,DOMBIVLI, INDIA',8080367280,26,'F');

INSERT INTO PASSENGER2(PASSPORTNO,FNAME,M,LNAME,ADDRESS,PHONE,AGE,SEX)

VALUES('C2345698','KHYATI','A','MISHRA','7820 MCCALLUM COURTS, APT 234, AKRON, OH',8082267280,30,'F');

INSERT INTO PASSENGER2(PASSPORTNO,FNAME,M,LNAME,ADDRESS,PHONE,AGE,SEX)

VALUES('D1002004','ANKITA','S','PATIL','7720 MCCALLUM BLVD, APT 1082, DALLAS, TX',9080367266,23,'F');

INSERT INTO PASSENGER2(PASSPORTNO,FNAME,M,LNAME,ADDRESS,PHONE,AGE,SEX)

VALUES('X9324666','TEJASHREE','B','PANDIT','9082 ESTAES OF RICHARDSON, RICHARDSON, TX',9004360125,28,'F');

INSERT INTO PASSENGER2(PASSPORTNO,FNAME,M,LNAME,ADDRESS,PHONE,AGE,SEX)

VALUES('B8765430','LAKSHMI','P','SHARMA','1110 FIR HILLS, APT 903, AKRON, OH',7666190505,30,'F');

INSERT INTO PASSENGER2(PASSPORTNO,FNAME,M,LNAME,ADDRESS,PHONE,AGE,SEX)

VALUES('J9801235','AKHILESH','D','JOSHI','345 CHATHAM COURTS, APT 678, MUMBAI, INDIA',9080369290,29,'M');

INSERT INTO PASSENGER2(PASSPORTNO,FNAME,M,LNAME,ADDRESS,PHONE,AGE,SEX)

VALUES('A1122334','MANAN','S','LAKHANI','5589 CHTHAM REFLECTIONS, APT 349 HOUSTON, TX',9004335126,25,'F');

INSERT INTO PASSENGER2(PASSPORTNO,FNAME,M,LNAME,ADDRESS,PHONE,AGE,SEX)

VALUES('Q1243567','KARAN','M','MOTANI','4444 FRANKFORD VILLA, APT 77, GUILDERLAND, NY',9727626643,22,'M');

INSERT INTO PASSENGER2(PASSPORTNO,FNAME,M,LNAME,ADDRESS,PHONE,AGE,SEX)

VALUES('S1243269','ROM','A','SOLANKI','7720 MCCALLUM BLVD, APT 2087, DALLAS, TX',9004568903,60,'M');

INSERT INTO PASSENGER2(PASSPORTNO,FNAME,M,LNAME,ADDRESS,PHONE,AGE,SEX)

VALUES('E3277889','John','A','GATES','1234 BAKER APTS, APT 59, HESSE, GERMANY',9724569986,10,'M');

INSERT INTO PASSENGER2(PASSPORTNO,FNAME,M,LNAME,ADDRESS,PHONE,AGE,SEX)

VALUES('K3212322','SARA','B','GOMES','6785 SPLITSVILLA, APT 34, MIAMI, FL',9024569226,15,'F');

INSERT INTO PASSENGER2(PASSPORTNO,FNAME,M,LNAME,ADDRESS,PHONE,AGE,SEX)

VALUES('P3452390','ALIA','V','BHAT','548 MARKET PLACE, SAN Francisco, CA',9734567800,10,'F');

INSERT INTO PASSENGER2(PASSPORTNO,FNAME,M,LNAME,ADDRESS,PHONE,AGE,SEX)

VALUES('W7543336','JOHN','P','SMITH','6666 ROCK HILL, APT 2902, TAMPA, FL',4624569986,55,'M');

INSERT INTO PASSENGER2(PASSPORTNO,FNAME,M,LNAME,ADDRESS,PHONE,AGE,SEX)

VALUES('R8990566','RIA','T','GUPTA','3355 PALENCIA, APT 2065, MUMBAI, INDIA',4724512343,10,'M');

CREATE TABLE PASSENGER3

(PID INT NOT NULL,

FLIGHT\_CODE VARCHAR(10),

PRIMARY KEY(PID),

FOREIGN KEY(FLIGHT\_CODE) REFERENCES FLIGHT(FLIGHT\_CODE) ON DELETE CASCADE);

-- INSERTING VALUES INTO TABLE: PASSENGER3--

INSERT INTO PASSENGER3(PID, FLIGHT\_CODE) VALUES(1,'AI2014');

INSERT INTO PASSENGER3(PID, FLIGHT\_CODE) VALUES(2,'LH9876');

INSERT INTO PASSENGER3(PID, FLIGHT\_CODE) VALUES(3,'9W2334');

INSERT INTO PASSENGER3(PID, FLIGHT\_CODE) VALUES(4,'QR1902');

INSERT INTO PASSENGER3(PID, FLIGHT\_CODE) VALUES(5,'EY1234');

INSERT INTO PASSENGER3(PID, FLIGHT\_CODE) VALUES(6,'BA3056');

INSERT INTO PASSENGER3(PID, FLIGHT\_CODE) VALUES(7,'9W2334');

INSERT INTO PASSENGER3(PID, FLIGHT\_CODE) VALUES(8,'AA4367');

INSERT INTO PASSENGER3(PID, FLIGHT\_CODE) VALUES(9,'QR1902');

INSERT INTO PASSENGER3(PID, FLIGHT\_CODE) VALUES(10,'EK3456');

INSERT INTO PASSENGER3(PID, FLIGHT\_CODE) VALUES(11,'BA1689');

INSERT INTO PASSENGER3(PID, FLIGHT\_CODE) VALUES(12,'QR1902');

INSERT INTO PASSENGER3(PID, FLIGHT\_CODE) VALUES(13,'AI2014');

INSERT INTO PASSENGER3(PID, FLIGHT\_CODE) VALUES(14,'BA1689');

INSERT INTO PASSENGER3(PID, FLIGHT\_CODE) VALUES(15,'QR2305');

CREATE TABLE EMPLOYEE1

(SSN INT NOT NULL,

FNAME VARCHAR2(20),

M VARCHAR(1),

LNAME VARCHAR2(20),

ADDRESS VARCHAR2(100),

PHONE INT,

AGE INT,

SEX VARCHAR(1),

JOBTYPE VARCHAR2(30),

ASTYPE VARCHAR2(30),

ETYPE VARCHAR2(30),

SHIFT VARCHAR2(20),

POSITION VARCHAR2(30),

AP\_NAME VARCHAR2(100),

PRIMARY KEY(SSN),

FOREIGN KEY(AP\_NAME) REFERENCES AIRPORT(AP\_NAME) ON DELETE CASCADE);

INSERT INTO EMPLOYEE1(SSN, FNAME, M, LNAME, ADDRESS, PHONE, AGE, SEX, JOBTYPE, ASTYPE, ETYPE, SHIFT, POSITION, AP\_NAME)

VALUES(123456789,'LINDA','M','GOODMAN','731 Fondren, Houston, TX',4356789345, 35, 'F','ADMINISTRATIVE SUPPORT','RECEPTIONIST','','','','Louisville International Airport');

INSERT INTO EMPLOYEE1(SSN, FNAME, M, LNAME, ADDRESS, PHONE, AGE, SEX, JOBTYPE, ASTYPE, ETYPE, SHIFT, POSITION, AP\_NAME)

VALUES(333445555,'JOHNY','N','PAUL','638 Voss, Houston, TX',9834561995, 40, 'M','ADMINISTRATIVE SUPPORT','SECRETARY','','','','Louisville International Airport');

INSERT INTO EMPLOYEE1(SSN, FNAME, M, LNAME, ADDRESS, PHONE, AGE, SEX, JOBTYPE, ASTYPE, ETYPE, SHIFT, POSITION, AP\_NAME)

VALUES(999887777,'JAMES','P','BOND','3321 Castle, Spring, TX',9834666995, 50, 'M','ENGINEER','','RADIO ENGINEER','','','Louisville International Airport');

INSERT INTO EMPLOYEE1(SSN, FNAME, M, LNAME, ADDRESS, PHONE, AGE, SEX, JOBTYPE, ASTYPE, ETYPE, SHIFT, POSITION, AP\_NAME)

VALUES(987654321,'SHERLOCK','A','HOLMES','123 TOP HILL, SAN Francisco,CA',8089654321, 47, 'M','TRAFFIC MONITOR','','','DAY','','San Francisco International Airport');

INSERT INTO EMPLOYEE1(SSN, FNAME, M, LNAME, ADDRESS, PHONE, AGE, SEX, JOBTYPE, ASTYPE, ETYPE, SHIFT, POSITION, AP\_NAME)

VALUES(666884444,'SHELDON','A','COOPER','345 CHERRY PARK, HESSE,GERMANY',1254678903, 55, 'M','TRAFFIC MONITOR','','NIGHT','','','Frankfurt Airport');

INSERT INTO EMPLOYEE1(SSN, FNAME, M, LNAME, ADDRESS, PHONE, AGE, SEX, JOBTYPE, ASTYPE, ETYPE, SHIFT, POSITION, AP\_NAME)

VALUES(453453453,'RAJ','B','SHARMA','345 FLOYDS, MUMBAI,INDIA',4326789031, 35, 'M','AIRPORT AUTHORITY','','','','MANAGER','Chhatrapati Shivaji International Airport');

INSERT INTO EMPLOYEE1(SSN, FNAME, M, LNAME, ADDRESS, PHONE, AGE, SEX, JOBTYPE, ASTYPE, ETYPE, SHIFT, POSITION, AP\_NAME)

VALUES(987987987,'NIKITA','C','PAUL','110 SYNERGY PARK, DALLAS,TX',5678904325, 33, 'F','ENGINEER','','AIRPORT CIVIL ENGINEER','','','Dallas/Fort Worth International Airport');

INSERT INTO EMPLOYEE1(SSN, FNAME, M, LNAME, ADDRESS, PHONE, AGE, SEX, JOBTYPE, ASTYPE, ETYPE, SHIFT, POSITION, AP\_NAME)

VALUES(888665555,'SHUBHAM','R','GUPTA','567 CHANDANI CHOWK, DELHI, INDIA',8566778890, 39, 'M','ADMINISTRATIVE SUPPORT','DATA ENTRY WORKER','','','','Indira GandhiInternational Airport');

INSERT INTO EMPLOYEE1(SSN, FNAME, M, LNAME, ADDRESS, PHONE, AGE, SEX, JOBTYPE, ASTYPE, ETYPE, SHIFT, POSITION, AP\_NAME)

VALUES(125478909,'PRATIK','T','GOMES','334 VITRUVIAN PARK, ALBANY, NY',4444678903, 56, 'M','TRAFFIC MONITOR','','DAY','','','John F. Kennedy International Airport');

INSERT INTO EMPLOYEE1(SSN, FNAME, M, LNAME, ADDRESS, PHONE, AGE, SEX, JOBTYPE, ASTYPE, ETYPE, SHIFT, POSITION, AP\_NAME)

VALUES(324567897,'ADIT','P','DESAI','987 SOMNATH, CHANDIGARH, INDIA',2244658909, 36, 'M','TRAFFIC MONITOR','','DAY','','','Chandigarh International Airport');

CREATE TABLE EMPLOYEE2

(JOBTYPE VARCHAR2(30) NOT NULL,

SALARY INT,

PRIMARY KEY(JOBTYPE));

--INSERTING VALUES INTO TABLE: EMPLOYEE2--

INSERT INTO EMPLOYEE2(JOBTYPE, SALARY)VALUES('ADMINISTRATIVE SUPPORT',50000);

INSERT INTO EMPLOYEE2(JOBTYPE, SALARY)VALUES('ENGINEER',70000);

INSERT INTO EMPLOYEE2(JOBTYPE, SALARY)VALUES('TRAFFIC MONITOR',80000);

INSERT INTO EMPLOYEE2(JOBTYPE, SALARY)VALUES('AIRPORT AUTHORITY',90000);

CREATE TABLE SERVES

(SSN INT NOT NULL,

PID INT NOT NULL,

PASSPORTNO VARCHAR(10) NOT NULL,

PRIMARY KEY(SSN, PID, PASSPORTNO),

FOREIGN KEY(SSN) REFERENCES EMPLOYEE1(SSN) ON DELETE CASCADE,

FOREIGN KEY(PID, PASSPORTNO) REFERENCES PASSENGER1(PID, PASSPORTNO) ON DELETE CASCADE);

-- INSERTING VALUES INTO TABLE: SERVES--

INSERT INTO SERVES(SSN, PID, PASSPORTNO) VALUES(123456789,1,'A1234568');

INSERT INTO SERVES(SSN, PID, PASSPORTNO) VALUES(123456789,15,'R8990566');

INSERT INTO SERVES(SSN, PID, PASSPORTNO) VALUES(123456789,9,'Q1243567');

INSERT INTO SERVES(SSN, PID, PASSPORTNO) VALUES(888665555,4,'D1002004');

INSERT INTO SERVES(SSN, PID, PASSPORTNO) VALUES(888665555,13,'P3452390');

INSERT INTO SERVES(SSN, PID, PASSPORTNO) VALUES(333445555,10,'S1243269');

INSERT INTO SERVES(SSN, PID, PASSPORTNO) VALUES(333445555,12,'K3212322');

INSERT INTO SERVES(SSN, PID, PASSPORTNO) VALUES(888665555,12,'K3212322');

INSERT INTO SERVES(SSN, PID, PASSPORTNO) VALUES(123456789,7,'J9801235');

INSERT INTO SERVES(SSN, PID, PASSPORTNO) VALUES(888665555,7,'J9801235');

CREATE TABLE TICKET1

(TICKET\_NUMBER INT NOT NULL,

SOURCE VARCHAR(3),

DESTINATION VARCHAR(3),

DATE\_OF\_BOOKING DATE,

DATE\_OF\_TRAVEL DATE,

SEATNO VARCHAR(5),

CLASS VARCHAR2(15),

DATE\_OF\_CANCELLATION DATE,

PID INT,

PASSPORTNO VARCHAR(10),

FOREIGN KEY(PID, PASSPORTNO) REFERENCES PASSENGER1(PID, PASSPORTNO) ON DELETE CASCADE);

--INSERTING INTO TABLE: TICKET1--

INSERT INTO TICKET1(TICKET\_NUMBER, SOURCE, DESTINATION, DATE\_OF\_BOOKING, DATE\_OF\_CANCELLATION, DATE\_OF\_TRAVEL, SEATNO, CLASS, PID, PASSPORTNO)

VALUES(0011234111122,'BOM','DFW','11-MAY-16','','15-DEC-16','32A','ECONOMY',1,'A1234568');

INSERT INTO TICKET1(TICKET\_NUMBER, SOURCE, DESTINATION, DATE\_OF\_BOOKING, DATE\_OF\_CANCELLATION, DATE\_OF\_TRAVEL, SEATNO, CLASS, PID, PASSPORTNO)

VALUES(0984567222299,'JFK','BOM','11-JUN-16','10-DEC-16','20-DEC-16','45D','ECONOMY',2,'B9876541');

INSERT INTO TICKET1(TICKET\_NUMBER, SOURCE, DESTINATION, DATE\_OF\_BOOKING, DATE\_OF\_CANCELLATION, DATE\_OF\_TRAVEL, SEATNO, CLASS, PID, PASSPORTNO)

VALUES(1768901333273,'IAH','DEL','21-AUG-16','','25-DEC-16','1A','BUSINESS',3,'C2345698');

INSERT INTO TICKET1(TICKET\_NUMBER, SOURCE, DESTINATION, DATE\_OF\_BOOKING, DATE\_OF\_CANCELLATION, DATE\_OF\_TRAVEL, SEATNO, CLASS, PID, PASSPORTNO)

VALUES(5890987441464,'IXC','IAH','10-AUG-16','','12-JAN-17','20C','FIRST-CLASS',4,'D1002004');

INSERT INTO TICKET1(TICKET\_NUMBER, SOURCE, DESTINATION, DATE\_OF\_BOOKING, DATE\_OF\_CANCELLATION, DATE\_OF\_TRAVEL, SEATNO, CLASS, PID, PASSPORTNO)

VALUES(1577654664266,'JFK','TPA','13-JUN-16','','10-DEC-16','54E','ECONOMY',5,'X9324666');

INSERT INTO TICKET1(TICKET\_NUMBER, SOURCE, DESTINATION, DATE\_OF\_BOOKING, DATE\_OF\_CANCELLATION, DATE\_OF\_TRAVEL, SEATNO, CLASS, PID, PASSPORTNO)

VALUES(2206543545545,'BOM','DFW','11-NOV-16','','12-FEB-17','43B','ECONOMY',6,'B8765430');

INSERT INTO TICKET1(TICKET\_NUMBER, SOURCE, DESTINATION, DATE\_OF\_BOOKING, DATE\_OF\_CANCELLATION, DATE\_OF\_TRAVEL, SEATNO, CLASS, PID, PASSPORTNO)

VALUES(7064321779737,'IAH','DEL','15-NOV-16','','25-DEC-16','27B','FIRST-CLASS',7,'J9801235');

INSERT INTO TICKET1(TICKET\_NUMBER, SOURCE, DESTINATION, DATE\_OF\_BOOKING, DATE\_OF\_CANCELLATION, DATE\_OF\_TRAVEL, SEATNO, CLASS, PID, PASSPORTNO)

VALUES(1571357215116,'SFO','FRA','15-OCT-16','','18-DEC-16','34E','ECONOMY',8,'A1122334');

INSERT INTO TICKET1(TICKET\_NUMBER, SOURCE, DESTINATION, DATE\_OF\_BOOKING, DATE\_OF\_CANCELLATION, DATE\_OF\_TRAVEL, SEATNO, CLASS, PID, PASSPORTNO)

VALUES(1570864987655,'IXC','IAH','12-NOV-16','','30-DEC-16','54C','ECONOMY',9,'Q1243567');

INSERT INTO TICKET1(TICKET\_NUMBER, SOURCE, DESTINATION, DATE\_OF\_BOOKING, DATE\_OF\_CANCELLATION, DATE\_OF\_TRAVEL, SEATNO, CLASS, PID, PASSPORTNO)

VALUES(1579283997799,'BOM','SFO','22-JAN-16','','15-DEC-16','38A','ECONOMY',10,'S1243269');

INSERT INTO TICKET1(TICKET\_NUMBER, SOURCE, DESTINATION, DATE\_OF\_BOOKING, DATE\_OF\_CANCELLATION, DATE\_OF\_TRAVEL, SEATNO, CLASS, PID, PASSPORTNO)

VALUES(1255701876107,'FRA','DEL','19-OCT-16','','31-DEC-16','57F','ECONOMY',11,'E3277889');

INSERT INTO TICKET1(TICKET\_NUMBER, SOURCE, DESTINATION, DATE\_OF\_BOOKING, DATE\_OF\_CANCELLATION, DATE\_OF\_TRAVEL, SEATNO, CLASS, PID, PASSPORTNO)

VALUES(1251334499699,'IXC','IAH','20-NOV-16','','12-JAN-17','45D','ECONOMY',12,'K3212322');

INSERT INTO TICKET1(TICKET\_NUMBER, SOURCE, DESTINATION, DATE\_OF\_BOOKING, DATE\_OF\_CANCELLATION, DATE\_OF\_TRAVEL, SEATNO, CLASS, PID, PASSPORTNO)

VALUES(1258776199490,'BOM','DFW','13-MAY-16','25-MAY-16','15-DEC-16','37C','ECONOMY',13,'P3452390');

INSERT INTO TICKET1(TICKET\_NUMBER, SOURCE, DESTINATION, DATE\_OF\_BOOKING, DATE\_OF\_CANCELLATION, DATE\_OF\_TRAVEL, SEATNO, CLASS, PID, PASSPORTNO)

VALUES(5891155114477,'FRA','DEL','26-JUN-16','','23-DEC-16','55C','ECONOMY',14,'W7543336');

INSERT INTO TICKET1(TICKET\_NUMBER, SOURCE, DESTINATION, DATE\_OF\_BOOKING, DATE\_OF\_CANCELLATION, DATE\_OF\_TRAVEL, SEATNO, CLASS, PID, PASSPORTNO)

VALUES(5893069766787,'BOM','DFW','11-AUG-16','','22-DEC-16','33F','ECONOMY',15,'R8990566');

CREATE TABLE TICKET2

(DATE\_OF\_BOOKING DATE NOT NULL,

SOURCE VARCHAR(3) NOT NULL,

DESTINATION VARCHAR(3) NOT NULL,

CLASS VARCHAR2(15) NOT NULL,

PRICE INT,

PRIMARY KEY(DATE\_OF\_BOOKING, SOURCE, DESTINATION, CLASS));

-- INSERTING VALUES INTO TICKET2--

INSERT INTO TICKET2(DATE\_OF\_BOOKING, SOURCE, DESTINATION, CLASS, PRICE)

VALUES('11-MAY-16','BOM','DFW','ECONOMY',95000);

INSERT INTO TICKET2(DATE\_OF\_BOOKING, SOURCE, DESTINATION, CLASS, PRICE)

VALUES('11-JUN-16','JFK','BOM','ECONOMY',100000);

INSERT INTO TICKET2(DATE\_OF\_BOOKING, SOURCE, DESTINATION, CLASS, PRICE)

VALUES('21-AUG-16','IAH','DEL','BUSINESS',200000);

INSERT INTO TICKET2(DATE\_OF\_BOOKING, SOURCE, DESTINATION, CLASS, PRICE)

VALUES('10-AUG-16','IXC','IAH','FIRST-CLASS',150000);

INSERT INTO TICKET2(DATE\_OF\_BOOKING, SOURCE, DESTINATION, CLASS, PRICE)

VALUES('13-JUN-16','JFK','TPA','ECONOMY',98000);

INSERT INTO TICKET2(DATE\_OF\_BOOKING, SOURCE, DESTINATION, CLASS, PRICE)

VALUES('11-NOV-16','BOM','DFW','ECONOMY',125000);

INSERT INTO TICKET2(DATE\_OF\_BOOKING, SOURCE, DESTINATION, CLASS, PRICE)

VALUES('15-NOV-16','IAH','DEL','FIRST-CLASS',195000);

INSERT INTO TICKET2(DATE\_OF\_BOOKING, SOURCE, DESTINATION, CLASS, PRICE)

VALUES('15-OCT-16','SFO','FRA','ECONOMY',170000);

INSERT INTO TICKET2(DATE\_OF\_BOOKING, SOURCE, DESTINATION, CLASS, PRICE)

VALUES('12-NOV-16','IXC','IAH','ECONOMY',140000);

INSERT INTO TICKET2(DATE\_OF\_BOOKING, SOURCE, DESTINATION, CLASS, PRICE)

VALUES('22-JAN-16','BOM','SFO','ECONOMY',45000);

INSERT INTO TICKET2(DATE\_OF\_BOOKING, SOURCE, DESTINATION, CLASS, PRICE)

VALUES('19-OCT-16','FRA','DEL','ECONOMY',100000);

INSERT INTO TICKET2(DATE\_OF\_BOOKING, SOURCE, DESTINATION, CLASS, PRICE)

VALUES('20-NOV-16','IXC','IAH','ECONOMY',120000);

INSERT INTO TICKET2(DATE\_OF\_BOOKING, SOURCE, DESTINATION, CLASS, PRICE)

VALUES('13-MAY-16','BOM','DFW','ECONOMY',65000);

INSERT INTO TICKET2(DATE\_OF\_BOOKING, SOURCE, DESTINATION, CLASS, PRICE)

VALUES('26-JUN-16','FRA','DEL','ECONOMY',80000);

INSERT INTO TICKET2(DATE\_OF\_BOOKING, SOURCE, DESTINATION, CLASS, PRICE)

VALUES('11-AUG-16','BOM','DFW','ECONOMY',98000);

CREATE TABLE TICKET3

(DATE\_OF\_CANCELLATION DATE NOT NULL,

SURCHARGE INT,

PRIMARY KEY(DATE\_OF\_CANCELLATION));

-- INSERTING VALUES INTO TABLE: TICKET3--

INSERT INTO TICKET3(DATE\_OF\_CANCELLATION, SURCHARGE) VALUES('10-DEC-16',75000);

INSERT INTO TICKET3(DATE\_OF\_CANCELLATION, SURCHARGE) VALUES('25-MAY-16',25000);

-- Stored Procedure for Details of economy class passengers with destination DFW'--

CREATE OR REPLACE PROCEDURE DFWECONOMYPASSENGERS AS

CURSOR ECOPASSDETAILS is

select al.AL\_NAME,fl.FLIGHT\_CODE,p2.FNAME,p2.LNAME,p2.PASSPORTNO,t.CLASS,t.DATE\_OF\_TRAVEL,t.DESTINATION,t.SOURCE,t.SEATNO,t.TICKET\_NUMBER from Airline al,Flight fl,PASSENGER1 p1,PASSENGER2 p2 ,PASSENGER3 p3,TICKET1 t

where al.AIRLINEID = fl.AIRLINEID

and p1.PID= p3.PID

and p1.PASSPORTNO =p2.PASSPORTNO

and fl.FLIGHT\_CODE = p3.FLIGHT\_CODE

and t.PASSPORTNO = p2.PASSPORTNO

and t.CLASS='ECONOMY' and t.DESTINATION='DFW';

PASSDETAILS ECOPASSDETAILS%rowtype;

BEGIN

Open ECOPASSDETAILS ;

LOOP

fetch ECOPASSDETAILS into PASSDETAILS;

EXIT WHEN ECOPASSDETAILS%NOTFOUND;

dbms\_output.put\_line (PASSDETAILS.AL\_NAME || ' ' || PASSDETAILS.FLIGHT\_CODE || ' ' || PASSDETAILS.FNAME || ' ' || PASSDETAILS.LNAME|| ' ' ||PASSDETAILS.PASSPORTNO || ' ' || PASSDETAILS.CLASS || ' ' || PASSDETAILS.SOURCE || ' ' || PASSDETAILS.SEATNO || ' ' || PASSDETAILS.TICKET\_NUMBER);

END LOOP;

close ECOPASSDETAILS;

END DFWECONOMYPASSENGERS;

--Testing in sql developer: Oracle db--

SET SERVEROUTPUT ON

exec DFWECONOMYPASSENGERS();

-- Stored Procedure for flight details by status --

CREATE OR REPLACE PROCEDURE FLIGHTSBYSTATUS

(

IN\_STATUS IN VARCHAR2

) AS

CURSOR fSTATUS is

select distinct f.FLIGHT\_CODE ,al.AL\_NAME ,f.ARRIVAL,f.departure,f.SOURCE,f.DESTINATION,f.STATUS,f.FLIGHTTYPE from Airline al ,Airport ap,flight f

where al.AIRLINEID=f.AIRLINEID

and f.STATUS =IN\_STATUS;

FlightStatus fSTATUS%rowtype;

BEGIN

Open fSTATUS ;

LOOP

fetch fSTATUS into FlightStatus;

EXIT WHEN fSTATUS%NOTFOUND;

dbms\_output.put\_line (FlightStatus.FLIGHT\_CODE || ' ' || FlightStatus.AL\_NAME || ' ' || FlightStatus.ARRIVAL || ' ' || FlightStatus.departure|| ' ' ||FlightStatus.Source || ' ' || FlightStatus.DESTINATION || ' ' || FlightStatus.STATUS || ' ' || FlightStatus.FLIGHTTYPE);

END LOOP;

close fSTATUS;

END FLIGHTSBYSTATUS;

--Testing in sql developer: Oracle db--

SET SERVEROUTPUT ON

exec FLIGHTSBYSTATUS('Delayed');

-- or--

SET SERVEROUTPUT ON

exec FLIGHTSBYSTATUS('On-time');

-- Trigger, when flight is delayed it is logged into different table--

CREATE OR REPLACE TRIGGER DELAYEDFLIGHTS

AFTER INSERT ON FLIGHT

FOR EACH ROW

DECLARE

BEGIN

if updating('STATUS')

then

insert into delayed\_flights (FLIGHT\_CODE, SOURCE, DESTINATION , AIRLINEID ,report\_time) values(:new.flight\_code,:new.source,:new.destination,:new.airlineid,sysdate);

end if;

END;

-- This is audit table for this trigger--

CREATE TABLE "DELAYED\_FLIGHTS"

( "FLIGHT\_CODE" VARCHAR2(20 BYTE),

"DESTINATION" VARCHAR2(20 BYTE),

"SOURCE" VARCHAR2(20 BYTE),

"AIRLINEID" VARCHAR2(20 BYTE),

"REPORT\_TIME" DATE

);

INSERT INTO FLIGHT(FLIGHT\_CODE, SOURCE, DESTINATION, ARRIVAL, DEPARTURE, STATUS, DURATION, FLIGHTTYPE, LAYOVER\_TIME, NO\_OF\_STOPS, AIRLINEID)

VALUES('AI127','BOM','DFW','02:10','03:15','Delayed','24hr','Connecting',3,1,'AI');

--TRIGGER TO UPDATE SALARY OF AN EMPLOYEE DEPENDING ON JOBTYPE--

CREATE OR REPLACE TRIGGER UPDATEDSalary AFTER

INSERT OR

UPDATE OF SALARY ON EMPLOYEE2

FOR EACH ROW;

DECLARE

JOBTYPE EMPLOYEE2.JOBTYPE%TYPE

BEGIN

CASE

WHEN (JOBTYPE= 'Administrative Support') THEN

UPDATE EMPLOYEE2 SET SALARY=SALARY+SALARY\*.10;

WHEN (JOBTYPE= 'ENGINEER') THEN

UPDATE EMPLOYEE2 SET SALARY=SALARY+SALARY\*.05;

WHEN (JOBTYPE= 'TRAFFIC MONITOR') THEN

UPDATE EMPLOYEE2 SET SALARY=SALARY+SALARY\*.25;

WHEN (JOBTYPE= 'AIRPORT AUTHORITY') THEN

UPDATE EMPLOYEE2 SET SALARY=SALARY+SALARY\*.45;

END CASE;

END;

-- TRIGGER TO UPDATE 'TICKET\_PRICE\_HISTORY' TABLE WHEN THE PRICE OF AN AIR TICKET IS UPDATED IN TICKET2 TABLE--

-- CREATING TABLE TICKET\_PRICE\_HISTORY--

CREATE TABLE TICKET\_PRICE\_HISTORY

(DATE\_OF\_BOOKING DATE NOT NULL,

SOURCE VARCHAR(3) NOT NULL,

DESTINATION VARCHAR(3) NOT NULL,

CLASS VARCHAR2(15) NOT NULL,

PRICE INT,

PRIMARY KEY(DATE\_OF\_BOOKING, SOURCE, DESTINATION, CLASS));

-- CREATE A TRIGGER TICKET\_PRICE\_HISTORY --

CREATE OR REPLACE TRIGGER TICKET\_PRICE\_HISTORY

BEFORE UPDATE OF PRICE

ON TICKET2

FOR EACH ROW

BEGIN

INSERT INTO TICKET\_PRICE\_HISTORY

VALUES(:OLD.DATE\_OF\_BOOKING, :OLD.SOURCE, :OLD:DESTINATION, :OLD.CLASS, :OLD.PRICE);

END;

--LET'S UPDATE A PRICE OR FARE OF AN AIR TICKET --

UPDATE TICKET2

SET PRICE=150000

WHERE DATE\_OF\_BOOKING ='11-NOV-16'

AND SOURCE='BOM'

AND DESTINATION='DFW'

AND CLASS='ECONOMY'