CREATE TABLE AIRPORT(

AIRPORT\_CODE VARCHAR(25),

AIRPORT\_NAME VARCHAR(100) NOT NULL,

LOCATION VARCHAR(50) NOT NULL,

CITY VARCHAR(50) NOT NULL,

AP\_STATE VARCHAR(50) NOT NULL,

COUNTRY VARCHAR(50) NOT NULL,

ZIP INT NOT NULL,

CONSTRAINT AIRPORT\_PK PRIMARY KEY (AIRPORT\_CODE)

);

INSERT INTO AIRPORT VALUES( 'BLR' , 'Kempegowda International Airport',

'KIAL Rd, Devanahalli','Bengaluru','Karnataka','INDIA',560300);

INSERT INTO AIRPORT VALUES( 'IXE' , 'Mangalore International Airport', 'Bajpe Main Rd, Kenjar HC','Mangaluru','Karnataka','INDIA',574142);

INSERT INTO AIRPORT VALUES( 'MYQ' , 'Mysuru Airport',

'6MH5+479, Kozhikode-Mysore-Kollegal Highway','Mysuru','Bengaluru','INDIA',571311);

INSERT INTO AIRPORT VALUES( 'BOM' , 'Mumbai International Airport',

'Mumbai','Mumbai','Maharashtra','INDIA',400099);

INSERT INTO AIRPORT VALUES( 'PNQ' , 'Pune International Airport', 'New Airport Rd','Pune','Maharashtra','USA',411032);

CREATE TABLE AIRLINE\_COMPANY(

COMPANY\_ID VARCHAR(50) ,

COMPANY\_NAME VARCHAR(100) NOT NULL,

CONSTRAINT COMPANY\_PK PRIMARY KEY (COMPANY\_ID)

);

INSERT INTO AIRLINE\_COMPANY VALUES( 'GF' , 'Go First');

INSERT INTO AIRLINE\_COMPANY VALUES( 'IA' , 'IndiGo Airlines');

INSERT INTO AIRLINE\_COMPANY VALUES( 'AIE' , 'Air India Express');

INSERT INTO AIRLINE\_COMPANY VALUES( 'JET' , 'Jet Airways');

INSERT INTO AIRLINE\_COMPANY VALUES( 'SJ' , 'Spice Jet');

CREATE TABLE AIRPLANE(

AIRPLANE\_NO VARCHAR(25) ,

SEATING\_CAPACITY INT NOT NULL,

COMPANY VARCHAR(50) NOT NULL,

CONSTRAINT AIRPLANE\_PK PRIMARY KEY (AIRPLANE\_NO),

CONSTRAINT PLANE\_COMPANY\_FK FOREIGN KEY (COMPANY)

REFERENCES AIRLINE\_COMPANY(COMPANY\_ID)

);

INSERT INTO AIRPLANE VALUES( 'GF751' , 40, 'GF' );

INSERT INTO AIRPLANE VALUES( 'GF851' , 60, 'GF' );

INSERT INTO AIRPLANE VALUES( 'AIE100' , 40, 'AIE' );

INSERT INTO AIRPLANE VALUES( 'JET785' , 60, 'JET' );

INSERT INTO AIRPLANE VALUES( 'IA747' , 40, 'IA' );

CREATE TABLE PLANE\_PORT\_ACCESS(

AIRPORT VARCHAR(25) NOT NULL,

AIRPLANE VARCHAR(25) NOT NULL,

CONSTRAINT ACCESS\_PK PRIMARY KEY (AIRPORT,AIRPLANE),

CONSTRAINT ACCESS\_PORT\_FK FOREIGN KEY (AIRPORT)

REFERENCES AIRPORT(AIRPORT\_CODE)

ON DELETE CASCADE,

CONSTRAINT ACCESS\_PLANE\_FK FOREIGN KEY (AIRPLANE)

REFERENCES AIRPLANE(AIRPLANE\_NO)

ON DELETE CASCADE

);

INSERT INTO PLANE\_PORT\_ACCESS VALUES( 'BLR','GF751' );

INSERT INTO PLANE\_PORT\_ACCESS VALUES( 'MYQ','GF751' );

INSERT INTO PLANE\_PORT\_ACCESS VALUES( 'BOM','GF751' );

INSERT INTO PLANE\_PORT\_ACCESS VALUES( 'BLR','GF851' );

INSERT INTO PLANE\_PORT\_ACCESS VALUES( 'BOM','GF851' );

CREATE TABLE SEAT(

AIRPLANE VARCHAR(25) NOT NULL,

SEAT\_NO VARCHAR(5) NOT NULL,

AVAILABILITY VARCHAR(10) DEFAULT 'TRUE',

LOCATION VARCHAR(25) NOT NULL,

SEAT\_CLASS VARCHAR(25) NOT NULL,

CONSTRAINT SEAT\_PK PRIMARY KEY (AIRPLANE,SEAT\_NO),

CONSTRAINT SEAT\_PLANE\_FK FOREIGN KEY (AIRPLANE)

REFERENCES AIRPLANE(AIRPLANE\_NO)

ON DELETE CASCADE

);

INSERT INTO SEAT VALUES( 'GF751','A23','TRUE','WINDOW','ECONOMIC' );

INSERT INTO SEAT VALUES( 'GF751' ,'A24','TRUE','WINDOW','ECONOMIC' );

INSERT INTO SEAT VALUES( 'GF751' ,'A25','TRUE','WINDOW','ECONOMIC' );

INSERT INTO SEAT VALUES( 'GF851' ,'A23','TRUE','WINDOW','ECONOMIC' );

INSERT INTO SEAT VALUES( 'GF851' ,'A24','TRUE','WINDOW','ECONOMIC' );

CREATE TABLE END\_USER (

EMAIL VARCHAR(25) ,

FNAME VARCHAR(25) NOT NULL,

LNAME VARCHAR(25) NOT NULL,

PHONE INT ,

TYPE\_OF\_USER VARCHAR(25) NOT NULL,

CONSTRAINT USER\_PK PRIMARY KEY (EMAIL)

);

INSERT INTO END\_USER VALUES

('kunal.jagdish@gmail.com','Kunal','Arora',9694529484,'NORMAL' );

INSERT INTO END\_USER VALUES

('kxal42230@utdallas.edu','Kunal','Arora',9694529484,'NORMAL' );

INSERT INTO END\_USER VALUES

('shobhit@gmail.com','Shobhit','Agrawal',9694527474,'NORMAL' );

INSERT INTO END\_USER VALUES

('indervirsingh@gmail.com' ,'Indervir','Singh',9694528585,'NORMAL' );

INSERT INTO END\_USER VALUES

( 'bala@yahoo.com' ,'Bala','Yadav',9694529595,'AGENT' );

CREATE TABLE FLIGHT\_TRIP(

FLIGHT\_TRIP\_ID VARCHAR(15) ,

NO\_OF\_TRAVELLERS INT NOT NULL,

ARRIVAL\_AIRPORT VARCHAR(25) NOT NULL,

ARRIVAL\_TIME DATE NOT NULL,

DEPART\_AIRPORT VARCHAR(25) NOT NULL,

DEPART\_TIME DATE NOT NULL,

USER\_EMAIL VARCHAR(25) NOT NULL,

CONSTRAINT FLIGHT\_TRIP\_PK PRIMARY KEY

(FLIGHT\_TRIP\_ID),

CONSTRAINT FLGHT\_TRIP\_USER\_FK FOREIGN KEY

(USER\_EMAIL) REFERENCES END\_USER(EMAIL)

ON DELETE SET NULL

);

INSERT INTO FLIGHT\_TRIP VALUES

('kunish17dec',1,'MYQ',to\_date('2014/12/27:12:00:00AM','yyyy/mm/dd:hh:mi::ssam'),

'DFW',to\_date('2014/12/26:12:00:00AM','yyyy/mm//dd:hh:mi:ssam'),'kunal.jagdish@gmail.com' ),

('kuniaa741',1,'MYQ',to\_date('2014/12/27:12:00:00AM','yyyy/mm/dd:hh:mi:ssam'),

'IXE',to\_date('2014/12/26:12:00:00AM','yyyy/mm/dd:hh:mi:ssam'),'kunal.jagdish@gmail.com' ),

('inder17dec',1,'MYQ',to\_date('2014/12/27:12:00:00AM','yyyy/mm/dd:hh:mi:ssam'),

'DFW',to\_date('2014/12/26:12:00:00AM','yyyy/mm/dd:hh:mi:ssam'),'indervirsingh@gmail.com' ),

('shoaga17dec',1,'MYQ',to\_date('2014/12/27:12:00:00AM','yyyy/mm/dd:hh:mi:ssam'),

'DFW',to\_date('2014/12/26:12:00:00AM','yyyy/mm/dd:hh:mi:ssam'),'shobhit@gmail.com' ),

('bala17dec',1,'DFW',to\_date('2014/12/27:12:00:00AM','yyyy/mm/dd:hh:mi:ssam'),

'PNQ',to\_date('2014/12/26:12:00:00AM','yyyy/mm/dd:hh:mi:ssam'),'bala@yahoo.com' );

CREATE TABLE FARE(

FLIGHT\_TRIP\_ID VARCHAR(15) ,

FINAL\_AMOUNT DECIMAL(9,2) NOT NULL,

AMOUNT DECIMAL(9,2) NOT NULL,

CURRENCY VARCHAR(5) NOT NULL,

DISCOUNT DECIMAL(4,2) NOT NULL,

TAX DECIMAL(5,2) NOT NULL,

CONSTRAINT FARE\_PK PRIMARY KEY (FLIGHT\_TRIP\_ID),

CONSTRAINT FARE\_FLT\_TRIP\_FK FOREIGN KEY

(FLIGHT\_TRIP\_ID) REFERENCES FLIGHT\_TRIP(FLIGHT\_TRIP\_ID)

ON DELETE CASCADE

);

INSERT INTO FARE VALUES( 'kunish17dec',1800,2000,'Rs',10,10 );

INSERT INTO FARE VALUES( 'kuniaa741',1800,2000,'Rs',10,10 );

INSERT INTO FARE VALUES( 'inder17dec',1800,2000,'Rs',10,10 );

INSERT INTO FARE VALUES( 'shoaga17dec',1800,2000,'Rs',10,10 );

INSERT INTO FARE VALUES( 'bala17dec',1800,2000,'Rs',10,10 );

CREATE TABLE PASSENGER(

ID INT,

PHONE INTEGER,

FNAME VARCHAR(25) NOT NULL,

LNAME VARCHAR(25) NOT NULL,

CONSTRAINT PASSENGER\_PK PRIMARY KEY (ID)

);

INSERT INTO PASSENGER

VALUES( 1,4567891231,'Kunal','Arora' );

INSERT INTO PASSENGER

VALUES( 2,4567891241,'Indervir','Singh' );

INSERT INTO PASSENGER

VALUES( 3,4567891274,'Bala','Yadav' );

INSERT INTO PASSENGER

VALUES( 4,4567891278,'Shobhi','Agrawal');

INSERT INTO PASSENGER

VALUES( 5,4567891214,'Nitish','Salwan' );

CREATE TABLE PASSENGER\_ITINERARY(

FLIGHT VARCHAR(15) NOT NULL,

ID VARCHAR(15),

SEAT\_NO VARCHAR(5),

AIRPLANE VARCHAR(25),

CONSTRAINT PASSENGER\_PKK PRIMARY KEY

(FLIGHT,SEAT\_NO,AIRPLANE),

CONSTRAINT PSSNGR\_FLT\_TRIP\_FK FOREIGN KEY (FLIGHT)

REFERENCES FLIGHT\_TRIP(FLIGHT\_TRIP\_ID)

ON DELETE CASCADE,

CONSTRAINT PSSNGR\_SEAT\_FK FOREIGN

KEY(SEAT\_NO,AIRPLANE)

REFERENCES SEAT(SEAT\_NO,AIRPLANE)

);

INSERT INTO PASSENGER\_ITINERARY VALUES( 'kunish17dec',2,'A23','GF751' );

INSERT INTO PASSENGER\_ITINERARY VALUES( 'kuniaa741',6,'A24','GF751' );

INSERT INTO PASSENGER\_ITINERARY VALUES( 'inder17dec',3,'A25','GF751' );

INSERT INTO PASSENGER\_ITINERARY VALUES( 'shoaga17dec',4,'A23','GF851' );

INSERT INTO PASSENGER\_ITINERARY VALUES( 'bala17dec',5,'A24','GF851' );

CREATE TABLE HOP(

HOP\_ID VARCHAR(15) ,

DISTANCE DECIMAL(7,2) NOT NULL,

BASE\_FARE DECIMAL(9,2) NOT NULL,

AIRPLANE VARCHAR(25) NOT NULL,

ARRIVAL\_AIRPORT VARCHAR(25) NOT NULL,

ARRIVAL\_TIME DATE NOT NULL,

DEPART\_AIRPORT VARCHAR(25) NOT NULL,

DEPART\_TIME DATE NOT NULL,

CONSTRAINT HOP\_PK PRIMARY KEY (HOP\_ID),

CONSTRAINT HOP\_APLNE\_FK FOREIGN KEY (AIRPLANE)

REFERENCES AIRPLANE(AIRPLANE\_NO),

CONSTRAINT HOP\_ARVL\_ARPRT\_FK

FOREIGN KEY(ARRIVAL\_AIRPORT)REFERENCES

AIRPORT(AIRPORT\_CODE),

CONSTRAINT HOP\_DRPT\_ARPRT\_FK FOREIGN

KEY(DEPART\_AIRPORT) REFERENCES

AIRPORT(AIRPORT\_CODE)

);

INSERT INTO HOP VALUES

( 'AX7458',600,200,'GF751','MYQ',to\_date('2014/12/27:12:00:00AM',

'yyyy/mm/dd:hh:mi:ssam'),'BLR',to\_date('2014/12/26:12:00:00AM',

'yyyy/mm/dd:hh:mi:ssam') );

INSERT INTO HOP VALUES

( 'AX7459',600,200,'GF851','MYQ',to\_date('2014/12/27:12:00:00AM',

'yyyy/mm/dd:hh:mi:ssam'),'IXE',to\_date('2014/12/26:12:00:00AM',

'yyyy/mm/dd:hh:mi:ssam') );

INSERT INTO HOP VALUES

( 'AX7460',600,200,'GF751','MYQ',to\_date('2014/12/27:12:00:00AM',

'yyyy/mm/dd:hh:mi:ssam'),'PNQ',to\_date('2014/12/26:12:00:00AM',

'yyyy/mm/dd:hh:mi:ssam') );

INSERT INTO HOP VALUES

( 'AX7461',600,200,'GF751','MYQ',to\_date('2014/12/27:12:00:00AM',

'yyyy/mm/dd:hh:mi:ssam'),'BOM',to\_date('2014/12/26:12:00:00AM',

'yyyy/mm/dd:hh:mi:ssam') );

INSERT INTO HOP VALUES

( 'AX7462',600,200,'GF751','BLR',to\_date('2014/12/27:12:00:00AM',

'yyyy/mm/dd:hh:mi:ssam'),'BOM',to\_date('2014/12/26:12:00:00AM',

'yyyy/mm/dd:hh:mi:ssam') );

CREATE TABLE HAS(

HOP VARCHAR(25) NOT NULL,

FLIGHT\_TRIP VARCHAR(15) NOT NULL,

CONSTRAINT HP\_HAS\_FT\_PK PRIMARY KEY

(HOP,FLIGHT\_TRIP),

CONSTRAINT HOP\_HAS\_FK FOREIGN KEY (HOP) REFERENCES

HOP(HOP\_ID),

CONSTRAINT FT\_HAS\_FK FOREIGN KEY(FLIGHT\_TRIP)

REFERENCES FLIGHT\_TRIP(FLIGHT\_TRIP\_ID)

ON DELETE CASCADE

);

INSERT INTO HAS VALUES( 'AX7458','kunish17dec' );

INSERT INTO HAS VALUES( 'AX7459','kuniaa741' );

INSERT INTO HAS VALUES( 'AX7458','inder17dec' );

INSERT INTO HAS VALUES( 'AX7458','shoaga17dec' );

INSERT INTO HAS VALUES( 'AX7460','bala17dec' );