# DataBase үүсгэлт

**CREATE TABLE CITY**

**(CNAME VARCHAR(15) NOT NULL,**

**STATE VARCHAR(15),**

**COUNTRY VARCHAR(30),**

**PRIMARY KEY(CNAME));**

**INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES('Ulaanbaatar','Huvsgul','Darhan');**

**INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES ('Erdenet','Erdenet','Suhbaatar');**

**INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES ('Arhangai','Huvsgul','Darhan');**

**INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES('Dornod','Dornod','Suhbaatar');**

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

**INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES('Zavhan', 'Tsetserleg', 'Darhan');**

**INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES('Uvurhangai','Hentii','Hovd');**

**INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES('Bulgan','Huvsgul','Darhan');**

**INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES('Dalanzadgad','Orhon','Darhan');**

**INSERT INTO CITY (CNAME, STATE, COUNTRY) VALUES('Tuv', 'Dornogovi', 'Darhan');**

**CREATE TABLE AIRPORT**

**(AP\_NAME VARCHAR(100) NOT NULL,**

**STATE VARCHAR(15),**

**COUNTRY VARCHAR(30),**

**CNAME VARCHAR(15),**

**PRIMARY KEY(AP\_NAME),**

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

**INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME)**

**VALUES('Ulaanbaatar International Airport','Huvsgul','Darhan','Ulaanbaatar');**

**INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME)**

**VALUES('Erdenet International Airport','Erdenet','Suhbaatar','Erdenet');**

**INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME)**

**VALUES('Arhangai International Airport','Huvsgul','Darhan','Arhangai');**

**INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME)**

**VALUES('Darhan International Airport','Dornod','Suhbaatar','Dornod');**

**INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME)**

**VALUES('Bulgan International Airport','Bulgan','Suhbaatar','Bulgan');**

**INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME)**

**VALUES('Zavhan International Airport','Tsetserleg', 'Darhan','Zavhan');**

**INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME)**

**VALUES('Uvurhangai Airport','Hentii','Hovd','Uvurhangai');**

**INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME)**

**VALUES('Hovd Intercontinental Airport','Huvsgul','Darhan','Bulgan');**

**INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME)**

**VALUES('Huvsgul International Airport','Orhon','Darhan','Dalanzadgad');**

**INSERT INTO AIRPORT (AP\_NAME, STATE, COUNTRY, CNAME)**

**VALUES('Tuv International Airport','Dornogovi', 'Darhan','Tuv');**

**CREATE TABLE AIRLINE**

**(AIRLINEID VARCHAR(3) NOT NULL,**

**AL\_NAME VARCHAR(50),**

**THREE\_DIGIT\_CODE VARCHAR(3),**

**PRIMARY KEY(AIRLINEID));**

**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 Suhbaatar Limited','098');**

**INSERT INTO AIRLINE (AIRLINEID, AL\_NAME, THREE\_DIGIT\_CODE) VALUES('LH','Korean Airlines', '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 Airline','176');**

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

**CREATE TABLE FLIGHT**

**(FLIGHT\_CODE VARCHAR(10) NOT NULL,**

**SOURCE VARCHAR(3),**

**DESTINATION VARCHAR(3),**

**ARRIVAL VARCHAR(10),**

**DEPARTURE VARCHAR(10),**

**STATUS VARCHAR(10),**

**DURATION VARCHAR(30),**

**FLIGHTTYPE VARCHAR(10),**

**LAYOVER\_TIME VARCHAR(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));**

**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 VARCHAR(20),**

**M VARCHAR(1),**

**LNAME VARCHAR(20),**

**ADDRESS VARCHAR(100),**

**PHONE INT,**

**AGE INT,**

**SEX VARCHAR(1),**

**PRIMARY KEY(PASSPORTNO));**

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

**VALUES('A1234568','ALEN','M','SMITH','2230 NORTHSIDE, APT 11, ALBANY, NY',367290,30,'M');**

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

**VALUES('B9876541','ANKITA','V','AHIR','3456 VIKAS APTS, APT 102,DOMBIVLI, Suhbaatar',367280,26,'F');**

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

**VALUES('C2345698','KHYATI','A','MISHRA','7820 MCCALLUM COURTS, APT 234, AKRON, OH',267280,30,'F');**

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

**VALUES('D1002004','ANKITA','S','PATIL','7720 MCCALLUM BLVD, APT 1082, DALLAS, TX',367266,23,'F');**

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

**VALUES('X9324666','TEJASHREE','B','PANDIT','9082 ESTAES OF RICHARDSON, RICHARDSON, TX',360125,28,'F');**

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

**VALUES('B8765430','LAKSHMI','P','SHARMA','1110 FIR HILLS, APT 903, AKRON, OH',190505,30,'F');**

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

**VALUES('J9801235','AKHILESH','D','JOSHI','345 CHATHAM COURTS, APT 678, MUMBAI, Suhbaatar',369290,29,'M');**

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

**VALUES('A1122334','MANAN','S','LAKHANI','5589 CHTHAM REFLECTIONS, APT 349 Bulgan, TX',335126,25,'F');**

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

**VALUES('Q1243567','KARAN','M','MOTANI','4444 FRANKFORD VILLA, APT 77, GUILDERLAND, NY',626643,22,'M');**

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

**VALUES('S1243269','ROM','A','SOLANKI','7720 MCCALLUM BLVD, APT 2087, DALLAS, TX',568903,60,'M');**

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

**VALUES('E3277889','John','A','GATES','1234 BAKER APTS, APT 59, Hentii, GERMANY',569986,10,'M');**

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

**VALUES('K3212322','SARA','B','GOMES','6785 SPLITSVILLA, APT 34, MIAMI, FL',569226,15,'F');**

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

**VALUES('P3452390','ALIA','V','BHAT','548 MARKET PLACE, Zavhan, CA',567800,10,'F');**

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

**VALUES('W7543336','JOHN','P','SMITH','6666 ROCK HILL, APT 2902, TAMPA, FL',569986,55,'M');**

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

**VALUES('R8990566','RIA','T','GUPTA','3355 PALENCIA, APT 2065, MUMBAI, Suhbaatar',512343,10,'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);**

**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 VARCHAR(20),**

**M VARCHAR(1),**

**LNAME VARCHAR(20),**

**ADDRESS VARCHAR(100),**

**PHONE INT,**

**AGE INT,**

**SEX VARCHAR(1),**

**JOBTYPE VARCHAR(30),**

**ASTYPE VARCHAR(30),**

**ETYPE VARCHAR(30),**

**SHIFT VARCHAR(20),**

**POSITION VARCHAR(30),**

**AP\_NAME VARCHAR(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(56789,'LINDA','M','GOODMAN','731 Fondren, Bulgan, TX',789345, 35, 'F','ADMINISTRATIVE SUPPORT','RECEPTIONIST','','','','Ulaanbaatar International Airport');**

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

**VALUES(45555,'JOHNY','N','PAUL','638 Voss, Bulgan, TX',561995, 40, 'M','ADMINISTRATIVE SUPPORT','SECRETARY','','','','Ulaanbaatar International Airport');**

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

**VALUES(87777,'JAMES','P','BOND','3321 Castle, Spring, TX',666995, 50, 'M','ENGINEER','','RADIO ENGINEER','','','Ulaanbaatar International Airport');**

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

**VALUES(54321,'SHERLOCK','A','HOLMES','123 TOP HILL, Zavhan,CA',654321, 47, 'M','TRAFFIC MONITOR','','','DAY','','Zavhan International Airport');**

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

**VALUES(84444,'SHELDON','A','COOPER','345 CHERRY PARK, Hentii,GERMANY',678903, 55, 'M','TRAFFIC MONITOR','','NIGHT','','','Uvurhangai Airport');**

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

**VALUES(53453,'RAJ','B','SHARMA','345 FLOYDS, MUMBAI,Suhbaatar',289031, 35, 'M','AIRPORT AUTHORITY','','','','MANAGER','Uvurhangai Airport');**

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

**VALUES(87987,'NIKITA','C','PAUL','110 SYNERGY PARK, DALLAS,TX',304325, 33, 'F','ENGINEER','','AIRPORT CIVIL ENGINEER','','','Huvsgul International Airport');**

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

**VALUES(65555,'SHUBHAM','R','GUPTA','567 CHANDANI CHOWK, Dornod, Suhbaatar',178890, 39, 'M','ADMINISTRATIVE SUPPORT','DATA ENTRY WORKER','','','','Bulgan International Airport');**

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

**VALUES(78909,'PRATIK','T','GOMES','334 VITRUVIAN PARK, ALBANY, NY',278903, 56, 'M','TRAFFIC MONITOR','','DAY','','','Hovd Intercontinental Airport');**

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

**VALUES(67897,'ADIT','P','DESAI','987 SOMNATH, Erdenet, Suhbaatar',358909, 36, 'M','TRAFFIC MONITOR','','DAY','','','Erdenet International Airport');**

**CREATE TABLE EMPLOYEE2**

**(JOBTYPE VARCHAR(30) NOT NULL,**

**SALARY INT,**

**PRIMARY KEY(JOBTYPE));**

**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 TICKET1**

**(TICKET\_NUMBER INT NOT NULL,**

**SOURCE VARCHAR(3),**

**DESTINATION VARCHAR(3),**

**DATE\_OF\_BOOKING DATE,**

**DATE\_OF\_TRAVEL DATE,**

**SEATNO VARCHAR(5),**

**CLASS VARCHAR(15),**

**DATE\_OF\_CANCELLATION DATE,**

**PID INT,**

**PASSPORTNO VARCHAR(10),**

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

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

**VALUES(34111122,'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(67222299,'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(01333273,'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(87441464,'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(54664266,'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(43545545,'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(21779737,'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(57215116,'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(64987655,'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(83997799,'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(01876107,'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(34499699,'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(76199490,'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(55114477,'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(69766787,'BOM','DFW','11-AUG-16','','22-DEC-16','33F','ECONOMY',15,'R8990566');**

**CREATE TABLE AIRPLANE**

**(SEATS INT NOT NULL,**

**FLIGHT\_CODE VARCHAR(10),**

**COLOR VARCHAR(10),**

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

**INSERT INTO AIRPLANE(SEATS, FLIGHT\_CODE, COLOR) VALUES(1,'AI2014','Red');**

**INSERT INTO AIRPLANE(SEATS, FLIGHT\_CODE, COLOR) VALUES(2,'LH9876','Blue');**

**INSERT INTO AIRPLANE(SEATS, FLIGHT\_CODE, COLOR) VALUES(3,'9W2334','Orange');**

**INSERT INTO AIRPLANE(SEATS, FLIGHT\_CODE, COLOR) VALUES(4,'QR1902','Yellow');**

**INSERT INTO AIRPLANE(SEATS, FLIGHT\_CODE, COLOR) VALUES(5,'EY1234','Pink');**

**INSERT INTO AIRPLANE(SEATS, FLIGHT\_CODE, COLOR) VALUES(6,'BA3056','Purple');**

**INSERT INTO AIRPLANE(SEATS, FLIGHT\_CODE, COLOR) VALUES(7,'9W2334','Cyan');**

**INSERT INTO AIRPLANE(SEATS, FLIGHT\_CODE, COLOR) VALUES(8,'AA4367','Neon');**

**INSERT INTO AIRPLANE(SEATS, FLIGHT\_CODE, COLOR) VALUES(9,'QR1902','Green');**

**INSERT INTO AIRPLANE(SEATS, FLIGHT\_CODE, COLOR) VALUES(1,'EK3456','White');**

**INSERT INTO AIRPLANE(SEATS, FLIGHT\_CODE, COLOR) VALUES(10,'BA1689','Black');**

**INSERT INTO AIRPLANE(SEATS, FLIGHT\_CODE, COLOR) VALUES(12,'QR1902','Grey');**

**INSERT INTO AIRPLANE(SEATS, FLIGHT\_CODE, COLOR) VALUES(13,'AI2014','White');**

**INSERT INTO AIRPLANE(SEATS, FLIGHT\_CODE, COLOR) VALUES(14,'BA1689','Yellow');**

**INSERT INTO AIRPLANE(SEATS, FLIGHT\_CODE, COLOR) VALUES(15,'QR2305','Red');**

# Normalziation

**Text

Description automatically generated**

**Эхний хэвийн хэлбэр (1NF)**

**Нэг хүснэгтээс давхардсан баганыг арилгасан.**

**Холбогдох өгөгдлийн бүлэг бүрт тусдаа хүснэгт үүсгэж, мөр бүрийг өвөрмөц багана эсвэл баганын багцаар тодорхойлсон.**

**Хоёр дахь хэвийн хэлбэр (2NF)**

**Эхний хэвийн хэлбэрийн бүх шаардлагыг хангасан.**

**Хүснэгтийн олон мөрөнд хамаарах өгөгдлийн дэд багцыг устгаж, тусад нь хүснэгтэд байрлуулсан.**

**Гадаад түлхүүрүүдийг ашиглан эдгээр шинэ хүснэгтүүд болон тэдгээрийн өмнөх хүснэгтүүдийн хооронд харилцаа холбоог бий болгосон.**

**Гурав дахь хэвийн хэлбэр (3NF)**

**Хоёр дахь хэвийн хэлбэрийн бүх шаардлагыг хангасан.**

**Үндсэн түлхүүрээс хамааралгүй багануудыг устгасан.**

**Гурав дахь хэвийн хэлбэрийн бүх шаардлагыг хангасан.**