

Attribute Domains

- document (name), document (number)
 - Airport (name, city, country)
 - Flight (departs), aircraftID, gate(#)
 - first name, last name,
 - Armed Services (branch, country)
 - Airline (name, country, call sign), program
- } - char (20)
- cell number — char (10)
 - iata (Airport) — char (3)
 - flight code — char (8)
 - email — char (30)
 - days (flight, Mon. - Sun) — char (70)
 - number of Terminals, max runway, distance (kilometre), year — INTEGER
 - travel time — Real
 - date, dob — Datetime

CREATE TABLE Airport (

iata	CHAR(3)
name	CHAR(20)
city	CHAR(20)
country	CHAR(20)
terminals	INTEGER
maxRunway	INTEGER
PRIMARY KEY	(iata)

CREATE TABLE fliesBetween (

arrival-airport-iata	CHAR(3)
depart-airport-iata	CHAR(3)
FOREIGN KEY (arrival-airport-iata)	REFERENCES Airport
FOREIGN KEY (depart-airport-iata)	REFERENCES Airport
PRIMARY KEY (arrival-airport-iata, depart-airport-iata))

CREATE TABLE Flight (

code	CHAR(8)	
days	CHAR(70)	
departs	CHAR(20)	
distance	INTEGER	
travel-time	REAL	
arrival-airport-iata	CHAR(3)	NOT NULL
depart-airport-iata	CHAR(3)	NOT NULL
name	CHAR(20)	NOT NULL
FOREIGN KEY (arrival-airport-iata)	REFERENCES Airport	
FOREIGN KEY (depart-airport-iata)	REFERENCES Airport	
FOREIGN KEY (name)	REFERENCES Airline	
PRIMARY KEY (code))	

CREATE TABLE FlightInstance (

date DATETIME

gate CHAR(20)

aircraftID CHAR(20)

code CHAR(8)

PRIMARY KEY (date, code)

FOREIGN KEY (code) REFERENCES Flight ON DELETE CASCADE)

CREATE TABLE Flies (

date DATETIME

code CHAR(8)

document CHAR(20)

number CHAR(20)

FOREIGN KEY (document, number) REFERENCES Passenger

FOREIGN KEY (date) REFERENCES FlightInstance

FOREIGN KEY (code) REFERENCES Flight

PRIMARY KEY (document, number, date, code))

CREATE TABLE Passenger (

document CHAR(20)

number CHAR(20)

first CHAR(20)

last CHAR(20)

dob DATETIME

email CHAR(30)

PRIMARY KEY (document, number))

CREATE TABLE Elite (

cell	CHAR(10)	
document	CHAR(20)	
number	CHAR(20)	
FOREIGN KEY	(document, number)	REFERENCES Passenger
PRIMARY KEY	(document, number)	

CREATE TABLE AirMaxService (

branch	CHAR(20)	
country	CHAR(20)	
document	CHAR(20)	
number	CHAR(20)	
FOREIGN KEY	(document, number)	REFERENCES Passenger
PRIMARY KEY	(document, number)	

CREATE TABLE belongs (

Program	CHAR(20)	
document	CHAR(20)	
number	CHAR(20)	
name	CHAR(20)	NOT NULL
FOREIGN KEY	(document, number)	REFERENCES Passenger
FOREIGN KEY	(name)	REFERENCES Airlines
PRIMARY KEY	(document, number, name)	

CREATE TABLE Airline (

name	CHAR (20)
callsign	CHAR (20)
country	CHAR (20)
year	INTEGER
PRIMARY KEY	(name)