## **DBMS PROJECT**

## TRAVEL PORTAL SCHEMA

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## **Functions of Travel Portal -**

- **1.** Passenger searches for flights with date of travel, time, destination and budget as filters.
- 2. Airlines schedule flights with specific date of travel, origin and destination. Each flight has a unique flight number.
- **3.** Passenger after selecting the flight can book the ticket.
- 4. The passenger makes a transaction for the booking of ticket.
- 5. The flight shows the number of available seats.
- 6. The passenger can only book ticket if there are seats available in the flight chosen.
- 7. One booking can only be made to one seat in any flight.
- 8. Passenger can make any number of bookings
- 9. There is one transaction per booking
- 10. Booking date cannot be greater than flight date and in case of same date the time of booking should be 2 hours less than the time of departure.

## **Travel Portal Schema -**

Airline ( Airline Code: VARCHAR(10) PRIMARY KEY NOT NULL, Name: CHAR(20) NOT NULL, Number of flights: INTEGER, Headquaters: VARCHAR(50)

> Flight (

Flight Number: INTEGER PRIMARY KEY NOT NULL, Airline Code: VARCHAR(10) NOT NULL FOREIGN KEY,

Origin: CHAR(20) NOT NULL,

Destination: CHAR(20) NOT NULL,

Price: INTEGER NOT NULL,

Departure Time: **TIME**, Arrival Time: **TIME**,

```
Days: VARCHAR(7),
      Seats Available: INTEGER NOT NULL
   Passenger (
      Passenger ID: VARCHAR(10) PRIMARY KEY NOT NULL,
      First Name: CHAR(10) NOT NULL,
      Last Name: CHAR(10).
      Age: INTEGER NOT NULL,
      Sex: CHAR(1) NOT NULL,
      Origin: CHAR(20),
      Destination: CHAR(20),
      Phone number: INTEGER CHECK (Phone number <=
      999999999 AND Phone number >= 0000000000),
      Date of Travel: DATE,
      Budget: INTEGER
   Booking (
Booking ID: VARCHAR(10) PRIMARY KEY NOT NULL,
      Booking Time: TIME NOT NULL,
      Booking Date: DATE NOT NULL,
      Transaction ID: VARCHAR(10) NOT NULL FOREIGN KEY,
      Flight Number: INTEGER FOREIGN KEY NOT NULL,
      Passenger ID: VARCHAR(10) FOREIGN KEY NOT NULL
   Transaction (
      Booking ID: VARCHAR(10) FOREIGN KEY NOT NULL
      Transaction ID: VARCHAR(10) NOT NULL PRIMARY KEY,
      Passenger ID: VARCHAR(10) FOREIGN KEY NOT NULL,
      Amount: INTEGER NOT NULL
```