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.

<u> Travel Portal Schema -</u>

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
```