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Flight Reservation

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Functional Requirements

1-Adding Users   2-Deleting Users   3-Adding Reservation   4-Cancel Reservation

5-Choosing a seat   6-Add Flights   7-Delete Flights   8-Available Seats

9-Occupied Seats   10-Find flights using airline name   11-Find flights with ___ # seats

12-Cancellations after a cut off date   13-Reservation after a cut off date

14-Users who have canceled more than ___ reservations

15-Users who have reserved more than ___ flights

Database Schema(Data Definition Language)

=======================================User=======================================

create table user

(uID INT AUTO_INCREMENT Primary Key,

 uNAME VARCHAR(30) NOT NULL);

=====================================FlightList=====================================

create table FlightList

(fID INT AUTO_INCREMENT Primary Key,

aName VARCHAR(30) NOT NULL,

numSeats INT NOT NULL);

=================================Reservation=================================

create table Reservation

(uID INT,

 fID INT,

 reservedDate Timestamp NOT NULL Default current_timestamp,

 updatedAt Timestamp NOT NULL on update current_timestamp,

 PRIMARY KEY (uID,fID,reservedDate),

 FOREIGN KEY (uID) references USER (uID) on delete cascade,

 FOREIGN KEY (fID) references FlightList (fID) on delete cascade);

=================================Seat=================================

create table Seat

(uID INT,

fID INT,

seatNumber INT NOT NULL auto_increment UNIQUE,

seatTaken BOOLEAN default true,

 PRIMARY KEY (uID,fID,seatNumber),

 FOREIGN KEY (uID) references USER (uID) on delete cascade,

 FOREIGN KEY (fID) references FlightList (fID) on delete cascade);

================================CanceledReservations================================

```
create table canceledReservation

(uID INT,

 fID INT,

canceledDate timestamp NOT NULL Default current_timestamp,

 PRIMARY KEY (uID,fID),

 FOREIGN KEY (uID) references USER (uID),

 FOREIGN KEY (fID) references FlightList (fID)

);
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