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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-Users who have reserved with age > ___   9-User's cancellation with age > ___

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,

age INT);

===================================**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 Date NOT NULL Default '0000-00-00' ,

 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,

 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 Date NOT NULL Default '0000-00-00' ,

 PRIMARY KEY (uID,fID),

 FOREIGN KEY (uID) references user (uID),

 FOREIGN KEY (fID) references flightList (fID)

);
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