

In my database, besides the Flights, Weekdays, Carriers and Months, I add four new tables

Users to keep track of the users in this system

Reservations to keep track of the reservations of users

CapacityInfo to keep track of changing capacity of flights given by the reservations

ReservationsCount to update the next available reservation id.

We need these tables because the information stored in these table is for the entire system. They should be persisted on the database. For example, the reservation count should be updated whenever any user making reservations.

So do the information of users, reservations and capacity info. Every time the system logged out, these information still need to be stored on the system.

For the last-time search history, I choose to store them in-memory as a ArrayList of Itinerary. Because users can book itinerary on only their last-time search history, so once they search again, or log out, we need to throw the last-time search history(ArrayList) away. So it dose not have to be persisted on the database.

For the online user information, it is similar to the last-time search history. Because once user log out, we can throw this information away, so we can store it as a local variable.