

CS61 Database Homework: 6

Rui Tian

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1 Overview and purpose of the database design

The database for Homework 5 intends to implement a booking system for flights. In my implementation, there are six tables. The User table records all the people of this database. It is divided into Customer and Employee. Customer table records the customers of this booking system. Employee table records the employees of this booking system. The reason for this division is that customer and employee would have different access and perform different functionalities of this system. Flight table will store the flight and route information, is use the data in table City to record departure and arrival information. Table Booking will store the booking information generated by customers.

I create two triggers to automatically update the assigned seat number of a particular flight when a customer book or cancel a flight. I also create a procedure to prompt the most 5 popular flights.

2 ERD model of the database

The ERD model is shown in Figure 1.

3 System setup

I have uploaded my booking system to our server. It can be visited through <http://www.cs.dartmouth.edu/~ruitian>.

Detailed testing procedure is included in README.TESTING.pdf.

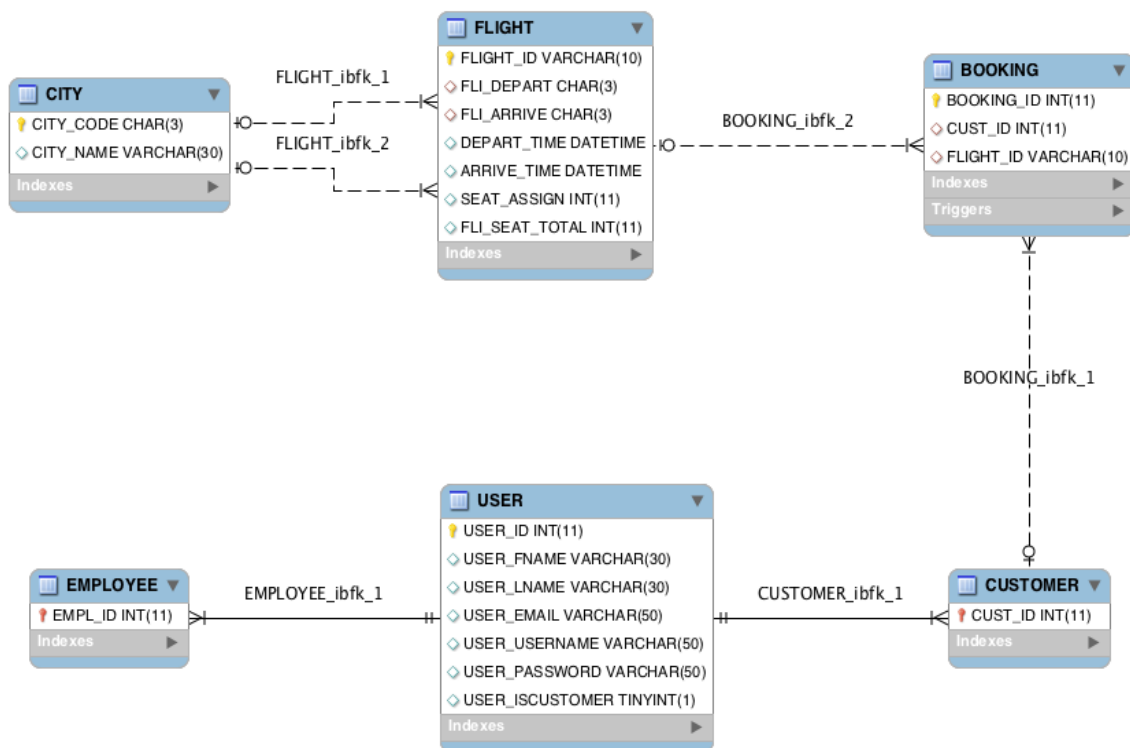


Figure 1: The ERD diagram of booking database system