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Modern Database Management 315-1

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Part 4: Database Implementation and Java Program

Final Project Summary

The SQL file creates five tables and one view. In addition, populates each table with data. The Origin Airport and the Destination Airport table contain information like airport name and location. The Airline table contains information about airline name, passenger capacity, and ticket price. The Hours table contains the fixed time for departure time and arrival time. The flights table is a composite table, with the primary keys of Origin Airport, Destination Airport, Airline, and Hours. The flights table helps create and maintain the view named Flights Info, which contains the origin airport name, destination airport name, airline name, departure time, arrive time, and flight ID.

The Java program can select all five tables and the view. I was not able to style the tables in a nice view; however, the program has a reusable method that prints out all the data for each table that the user asks for. For instance, if the user wants to view the Flight table, then the program will call the Print-Table method and print out the correct information for Flight table. The user can ask the program to print the tables as many times the user wants or until the user types 2 to end the loop. In addition, the program consists of a reusable method, that the user can insert data to any five tables. The user can keep inserting data into any of the tables or until the user types 2 to end the loop.

       Furthermore, the program can also update Ticket Prices in Airline table and Delete Flight ID's in the Flight table. Users can update economy, business, and first class tickets in the Airline Table. The user can also delete Flight ID's in the Flight table, which will reflect in the Flight Info view.