CSC 230 – Introduction to Database Systems

Homework #2

To practice for this homework, I recommend working your way through the SQL Zoo exercises. The questions here are designed to cover similar topics. All refer to the flights database we have been using for exercises. For each question, provide a SQL query that would return the answer from the database.

1. List all flight numbers currently in use.
2. Find all airports reachable from LAX via a direct flight.
3. List all the bookings currently in the database for K. McCartney, who may also have registered as Kathleen or Kathy.
4. Count the number of window seats available on A730.
5. Count the number of unique days that customer A. Franklin has a booking in the system.
6. List all the customers who are booked in seat A1 on a morning flight out of LAX.
7. List the flight number and date of all fights booked for customer R. Maddow on aircraft that are more than a decade old.
8. Figure out how many seats remain unbooked on flight 001 for 10/01/19.
9. Find all airports reachable from LAX via a flight with one stopover.
10. Find all possible routes between LAX and SEA involving no more than two intermediate stops.