

Homework 7

Install the airflights database using the provided sql file. Then create SQL queries for the following questions. You should not use your domain knowledge to make this too easy, i.e. I assume that you know the airport codes for Detroit and Chicago, but you need to express this knowledge using queries.

Problem 1:

Find all flights from MKE to MAD.

Problem 2:

Find all flights between MKE and MAD.

Problem 3:

Find all flights from Detroit to Chicago.

Problem 4:

Find all “flights” from Chicago to Chicago.

Problem 5:

Find all flights with one stop-over from EAU to MAD. Do not worry about arriving at your stop-over after the connecting flight has already left, since this means that you have to stay overnight. Hint: This is done with a join on flights.

Problem 6:

Find all flights with one stop-over from EAU to MAD. But now guarantee that you will arrive at your stop-over before the connecting flight departs.

Problem 7:

Count the number of flights leaving Chicago. This of course also counts flights from Chicago to Chicago.

Problem 8:

Count the number of flights leaving Chicago. But do not count flights from Chicago to Chicago.

Problem 9:

Find all possible ways to get from Milwaukee to Marquette with one additional stop insuring that you can make the connection.

Problem 10:

Find the numbers of flights leaving a city for another city.