CMSC 23500: Introduction to Databases

Homework 4 Melissa Grossbarth May 11, 2015

Let f represent flights and a represent airports.

1. Let A1 = $\pi_{dst}(\sigma_{src="XYZ"}(f))$

Then the answer is N1 = $\pi_{name}(a \bowtie (\rho_{dst \rightarrow airportCode}A1))$

2. Let A2 = $\pi_{dst}(f \bowtie (\rho_{dst \rightarrow src}(A1)))$

Then the answer is N2 = $\pi_{name}(a \bowtie (\rho_{dst \rightarrow airportCode}A2))$

3. Let A3 = $\pi_{dst}(f \bowtie (\rho_{dst \rightarrow src}(A2)))$

Then the answer is N3 = $\pi_{name}(a \bowtie (\rho_{dst \rightarrow airportCode}A3))$

4. N1 \cup N2 \cup N3