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 $N1 = \pi_{name}(a \bowtie A1)$

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

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

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

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

 $4.\ \ N1 \lor N2 \lor N3$