## CMSC 23500: Introduction to Databases

Homework 2 Jaime Arana-Rochel April 22, 2015

## Schema A: National Parks

- A1.  $\Pi_{pname} \left( \sigma_{visits\_per\_year < 100} \ p \right)$
- A2.  $\Pi_{ssn} ((\sigma_{pname = "yellowstone"} p) \bowtie r)$
- A3.  $\Pi_{lname} ((\sigma_{pop < 2,000,000} s) \bowtie p \bowtie r)$

## Schema B: Musical Recordings

- B1.  $\Pi_{lname} ((\sigma_{sname = "Yesterday"} \ s) \bowtie w \bowtie p)$
- B2.  $\Pi_{sname} ((\sigma_{lname = "Rodgers" \land fname = "Richard"} p) \bowtie w \bowtie s)$
- B3.  $\Pi_{sname} ((\sigma_{iname = "flute"} i) \bowtie r \bowtie t \bowtie p \bowtie s)$
- B4.  $\Pi_{lname} ((\sigma_{iname = "guitar"} i) \bowtie p \bowtie t \bowtie r)$
- B5.  $\Pi_{lname,fname} ((\sigma_{iname = "tuba"} i) \bowtie (w \bowtie r) \bowtie t \bowtie p \bowtie s)$