



Relational Algebra

CIS 4301

Lecture Notes

Lecture 14 - 2/28/2006

Sample Relational Schema



Movie (Title, Year, length, filmType,
studioName, producerC#)

StarsIn (MovieTitle, MovieYear, StarName)

MovieStar (Name, address, gender, birthdate)

MovieExec (name, address, cert#, netWorth)

Studio (Name, address, presC#)

Relational Operator: Rename

- The unary rename operator gives a new schema to a relation
- $\rho_{S(A_1, A_2, \dots, A_n)}(R)$
 - Renames relation R to S with attributes A_1, A_2, \dots, A_n
 - Note: S has exactly the same tuples as R
- Also, note the implicit rename operation in our notation from lecture 15
 - $S(A_1, A_2, \dots, A_n) := R$ is shorthand notation for $\rho_{S(A_1, A_2, \dots, A_n)}(R)$