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## Data Manipulation and Management

## Lesson 7: Relational Algebra

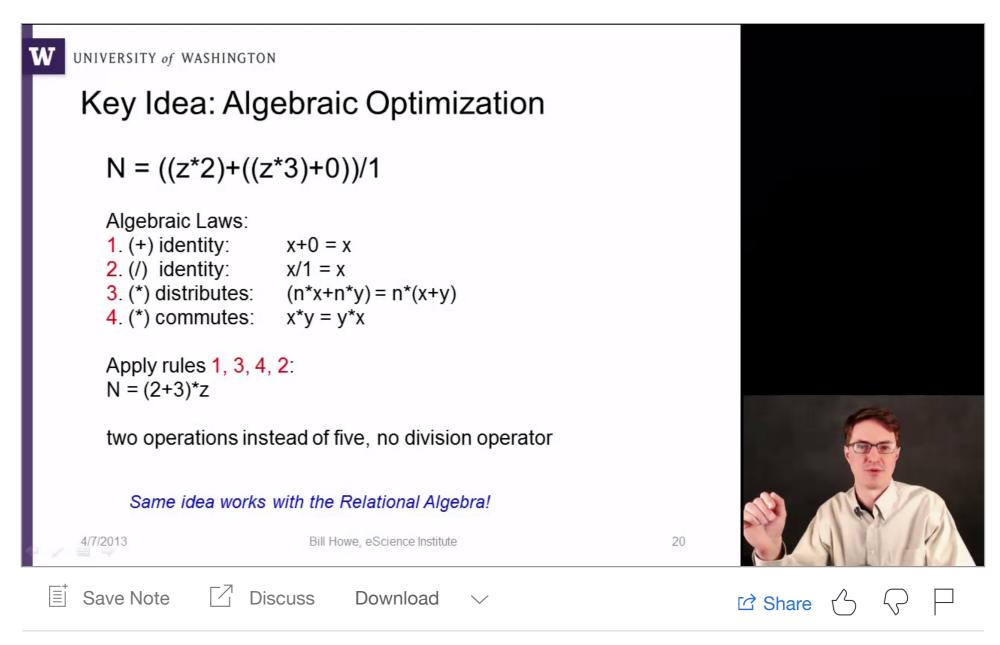
- Video: Algebraic
  Optimization Overview
  6 min
- Video: Relational Algebra
  Overview
  4 min
- Video: Relational Algebra
  Operators: Union,
  Difference, Selection
  6 min
- Video: Relational Algebra
  Operators: Projection,
  Cross Product
  4 min
- Video: Relational Algebra
  Operators: Cross Product
  cont'd, Join
  6 min
- Video: Relational Algebra
  Operators: Outer Join
  4 min
- Video: Relational Algebra
  Operators: Theta-Join
  4 min

## Lesson 8: SQL for Data Science

Lesson 9: Key Principles of Relational Databases

Assignment 2: SOL

## **Algebraic Optimization Overview**





**Help Us Translate** 

- 0:00 [MUSIC] When I'm giving a talk and describing using this slide, well I'll ask is how many people have heard of algebraic optimization. And typically, very few have, even if they're computer scientists,
- unless it's a room full of database people. But the thing is, that you already understand what this is. Right, you don't have to know databases to know what this is. This is just something you learned in high school, in Algebra class. Okay. So, forget tables for a second, just think about integers.