

Data Manipulation at Scale: Systems and Algorithms > Week 2 > Declarative Languages

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## Lesson 6: Principles of Data Manipulation and Management

Lesson 7: Relational Algebra

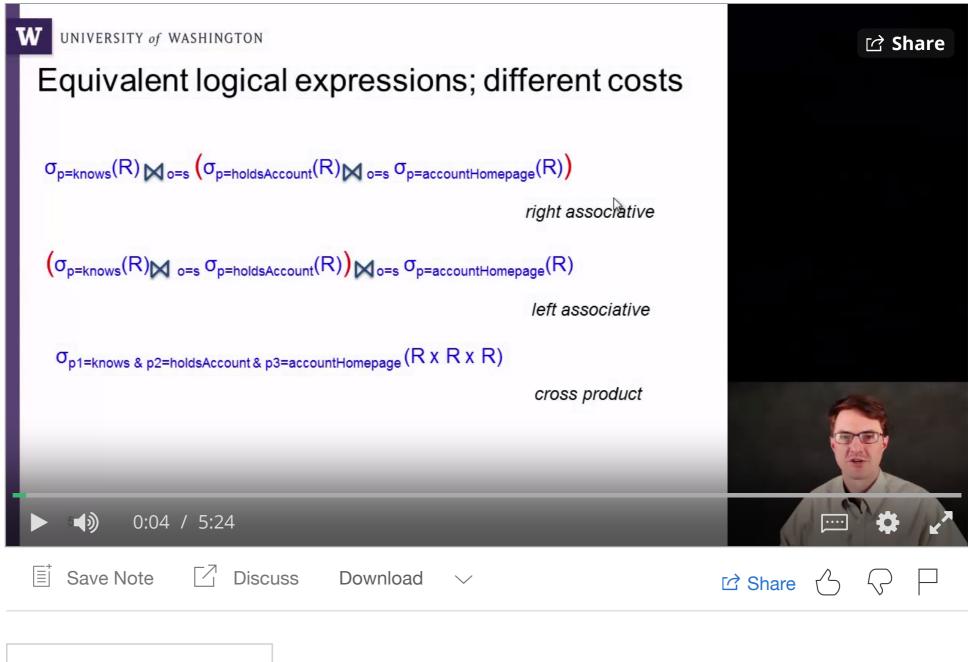
Lesson 8: SQL for Data Science

## **Lesson 9: Key Principles** of Relational Databases

- Video: Optimization:
  Physical Query Plans
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**Assignment 2: SQL** 

## Declarative Languages





0:00

**Help Us Translate** 

- [MUSIC] Okay, last time we talked about algebraic optimization. And I argued that all three of these expressions, without going into a lot of detail. But I argued that all three of these were equivalent and they differed only in the order in which things were evaluated. Here you evaluate this join first and this join second. And in this expression you evaluate this join first and this join second, and here you sort of find all possible combinations of tuples and then filter that.
- O:32 So if you don't understand exactly what's going on in these expressions that's okay, you're not going to know that yet. We'll talk about it, in fact, in this segment I think, but the takeaway here is

