

Lesson 6: Principles of Data Manipulation and Management

- ✓ **Video:** Data Models, Terminology  
5 min
- ✓ **Video:** From Data Models to Databases  
4 min
- ✓ **Video:** Pre-Relational Databases  
5 min
- ✓ **Video:** Motivating Relational Databases  
3 min
- ▶ **Video:** Relational Databases: Key Ideas  
4 min

Lesson 7: Relational Algebra


Lesson 8: SQL for Data Science

Lesson 9: Key Principles of Relational Databases

Assignment 2: SQL



Motivating Relational Databases

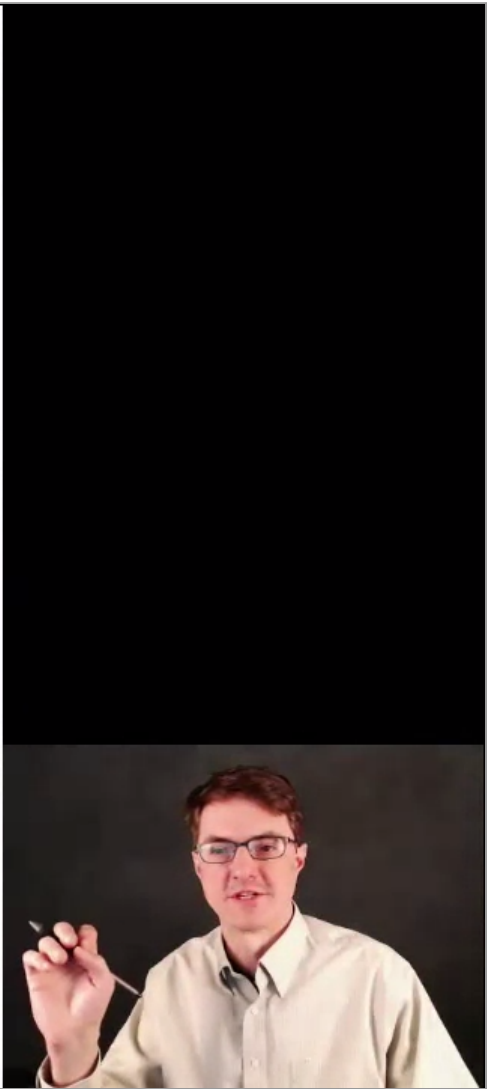
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## One view

“Relational Database Management Systems were invented to let you use one set of data in multiple ways, including ways that are unforeseen at the time the database is built and the 1st applications are written.”

(Curt Monash, analyst/blogger)

4/7/2013
Bill Howe, UW
14




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0:00 [MUSIC] Moving towards relational databases, the one view of what a relational database really is, here I'm quoting Curt Monash who's an analyst for the database industry. And he says, Relational Database Management Systems were invented to let you use one set of data in multiple ways. Including ways that were unforeseen at the time the database is built, and then at the time the first applications are written. And so I wanna emphasize here that this is the key idea of relational databases, not SQL and not some of the other things you may associate with particular implementations. It's really just about organizing the data in such a way that's to support unforeseen access methods. Querying in ways that you didn't anticipate when you organized it

