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Course Info

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THIS WEEK'S FORUM

Week 3

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Database Design



Charles Severance

Covering database design with multiple tables, foreign keys, and the JOIN operation..

Learning Objectives

Demonstrate how to build an Abstract Data Model from a User Interface Mockup

Demonstrate how to go from an Abstract Data Model to a Actual Data Model

Describe the difference between a primary, foreign, and logical key

Give examples of why an email address is a bad idea for a primary key

Describe the basic concepts of "normal forms" in database design

Build syntactically correct SQL queries using JOIN

Create multi-table databases and insert rows that are linked to other rows

Explain how auto increment works for primary keys and why it is used

Less



Lecture Materials

Relational Database Design 14 min

Resume

Normalization and Foreign Keys 9 min

Building a Physical Data Schema 17 min

Relational Database Design #4 13 min

Practice Quiz:
Database Models 15 questions

Assignment

Assignment Specifications 10 min

Peer Grader: Multi-Table Databases (Tracks) 3h Overdue

Bonus Materials

Bonus: Office Hours Houston, TX 4 min

Fun: Dr. Chuck gets a Educational Technology Tattoo 1 min