Database Concepts

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Last Edited: April 2016
Reference Textbook

G. Saake; K. Sattler; A. Heuer: Datenbanken — Konzepte und Sprachen

5th Edition, mitp-Verlag, 2013 (only available in German)
Overview

1. What are Databases – Basic Concepts
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2. Relational Databases – Data as Tables
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3. Database Design Using the ER Model
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4. Relational DB Design and Design Theory
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6. Query Basics: Algebra & Calculus
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6. Query Basics: Algebra & Calculus
7. Transactions, Integrity and Triggers
Overview

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Overview

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8. Views and Access Control
9. Application Programming
10. Data Exchange Using XML
Organisational: Magdeburg

- Lecturer: Siba Mohammad (Office: 29-125, email: smohamma@iti.cs.uni-magdeburg.de)
- Office hours: probably Mondays 14:30
- Lecturer: Eike Schallehn (Office: 29-125, email: eike@iti.cs.uni-magdeburg.de)
- Content and Slides: Gunter Saake
- Examination:
  - Written exam (120min)
  - Prerequisites: fulfill exercise participation requirements
Organisational: Magdeburg – Exercises

- Exercise instructor: Holger Harzer
- Accompanying exercises (see exercise plan):
  - Starting from 15th of April
  - Vote for 60% of all exercises and present 4 solutions
  - Last exercise session is practical (SQL)
- Enrollment starts now and ends in the first exercise! Procedure:
  1. Find suitable time slot(s)
  2. Enroll
Further German Literature

G. Vossen.
*Datenbankmodelle, Datenbanksprachen und Datenbankmanagement-Systeme.*
5. Auflage, Oldenbourg-Verlag, München, 2008

A. Kemper, A. Eickler.
*Datenbanksysteme. Eine Einführung.*
7. Auflage, Oldenbourg-Verlag, München, 2009

A. Heuer, G. Saake, K. Sattler.
*Datenbanken kompakt*
2. Aufl., mitp-Verlag, Bonn, August 2003

G. Lausen.
*Datenbanken – Grundlagen und XML-Technologien*
Spektrum Akademischer Verlag, 2005
Further English Literature

