Database Technology
Organization
Hello

• Prof. Dr. Heiko Paulheim
• Chair of Data Science
• Research Interests:
  – Knowledge Graphs on the Web and their Applications
  – Data Quality and Data Cleaning on Knowledge Graphs
  – Using Knowledge Graphs in Data Mining
  – Societal Impact of Artificial Intelligence
• Room: B6 – B.022
• Consultation: Tuesdays, 9-10 am
  – Please make an appointment w/ Ms. Lermer upfront
• Heiko will teach the lectures
Hello

- Tommaso Green
- Ph.D. Student
- Research Interests:
  - Natural Language Processing
  - Cross- and multilingual representation learning
- Contact: tommaso.green@uni-mannheim.de
- Consultation: by appointment
- Tommaso will teach the exercises
Introduction and Course Outline

- Administration
- Introduction
  - Concept and (brief) history of relational databases
  - Introduction to the relational model
Course Organization

- Lecture
  - Database concepts
  - Theory of relational algebra, relational modeling, query processing
  - Introduction to SQL
- Exercise
  - Creating example databases
  - Hands-on experience
- Final exam
## Course Contents and Schedule

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you’ll get a larger eggxercise assignment here
Course Organization

• Lecture Webpage: Slides, Announcements, Web Links
  – https://www.uni-mannheim.de/dws/teaching/course-details/courses-for-master-candidates/cs-460-database-technology/
  – hint: look at version tags!

• Additional Material

• Time and Location
  – Lecture: Wednesday, 12.00 – 13.30, B6 A104
  – Exercise: Wednesday, 13.45 – 15.15, B6 A104

• Remote teaching
  – For those who can’t be there, we provide video recordings in ILIAS (from 2021, but they are widely identical)
Material and Sources

- This course (and the majority of the slides) are based on the book
  - Silberschatz et al.: Database System Concepts

- Several copies are available in the library
- Additional material online
  - www.db-book.com
Questions?