Database Technologies

1. Exercise
Hi 😊

- This semester the exercises will be online
  - to prepare for it, please use the zoom desktop client
  - In case you do not have an up to date version of Zoom client, **update it**
    - we will use some features of Zoom which only works with an up to date version such as Polls/breakout rooms
    - Sign in to Zoom desktop client
    - Click your profile picture then click **Check for Updates**

  - faster way for Windows
    - Right click on the small zoom icon down in the system tray
    - Choose “Check for Updates”

Zoooooooooom

- Webcam is not mandatory, but
  - from my previous teaching experience
    - it helps you to get to know your classmates if you turn on your webcam
    - especially for working in groups
  - Nevertheless, cool backgrounds are possible (preferred)
    - but it has some hardware requirements (may not work with every PC)
    - how to change background:


https://www.uni-mannheim.de/impressum/
ZOOOOOOOOOOOOOM

• Before entering the zoom room, check
  – that your audio/video is working
  – activated the background if you wish
Further preparation

• For further inspection of databases in the exercises
  – e.g. try out queries / have a look at instances / tables etc
  – install the corresponding software
    • in this course we will use XAMPP because it works easily and for most
      of the operating systems out there
    • if you already have a database system installed like MariaDB, MySQL,
      etc... you can also use it if you want
  – the following slides will show how to install XAMPP
Installing XAMPP and importing a dataset

• Download XAMPP for your operating system (Windows, Linux, Mac) and install it
  – https://www.apachefriends.org/download.html
  – when you are asked which services you should install then:
    1) apache webserver, 2) database like MariaDB/MySQL, 3) PhpMyAdmin is enough

  – we do not need:
    • Filezilla
    • Mercury
    • Tomcat
Installing XAMPP and importing a dataset

• Start the XAMPP Control Panel and start MySQL/MariaDB and Apache
Installing XAMPP and importing a dataset

• Open your Browser and browse to http://localhost/phpmyadmin
Installing XAMPP and importing a dataset

• You see all databases on the left – create a new one and name it “university”
Installing XAMPP and importing a dataset

• Click on the import tab and load
  – file “DB_Exercise_1_Schema.sql”
  – file “DB_Exercise_1_Small_Instances.sql”
Installing XAMPP and importing a dataset

• Search for the instructor table and have a look at the instances