Database Systems on Modern CPU Architectures

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Organisation

- Lecture + Tutorial: Tuesdays from 14:00 – 17:00.
- Programming assignments every 2 weeks starting now.
- Announcements on website & Mattermost.
- Assignments managed via GitLab (CI). (Due Tuesdays at 14:00)
- No teams.
- Bonus System:
  - 0.3 / 0.4 grade bonus on final exam. (>= 75% of all points)
  - 9 points for correct implementation of assignments.
  - 1 points for code quality per assignment. (Linter green == 1 Points)
Chair for Database Systems

Welcome to our GitLab
You can register an account using an email address from the following domains:

- in.tum.de
- tum.de
- mytum.de

We reserve the right to disable and eventually delete accounts after a semester ended.

For unrelated projects, please use the GitLab from the LRZ:
https://gitlab.lrz.de/
A group is a collection of several projects.
If you organize your projects under a group, it works like a folder.
You can manage your group member's permissions and access to each project in the group.
Your request for access has been queued for review.

Database Systems on Modern CPU Architectures - ModernDBs - 2019

Programming assignments for the lecture Database Systems on Modern CPU Architectures.

Subgroups and projects

Search by name

Last created

A group is a collection of several projects.

If you organize your projects under a group, it works like a folder.

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Database Systems on Modern CPU Architectures - ModernDBs - 2019

Programming assignments for the lecture Database Systems on Modern CPU Architectures.

Subgroups and projects

- task-external-sort
  - External sorting

Search by name
Last created

4 days ago
Fork project

A fork is a copy of a project. Forking a repository allows you to make changes without affecting the original project.

Select a namespace to fork the project

ModernDBs Test
User 4
Forking in progress

Please wait while we import the repository for you. Refresh at will.
Prerequisites

- Grundlagen der Informatik
- Grundlagen Datenbanksysteme (GDB) (IN008)

Organization

- First Lecture: Tuesday, April 23th 2019
- Lecture + Exercise: 2pm – 5pm
- Room: 0001, Zell-Seminarraum (S414.EG.001)
- GitLab
- Mattermost

Literature

- Joseph M. Hellerstein, Michael Stonebraker, James Hamilton. Architecture of a Database System

Lecture Slides

- Introduction
- Storage
- Access Paths
- Text-Oriented Processing
- Algebraic Operators
- Code Generation, Parallelism
- Main-Memory Databases
- Additional slides on storage

Programming Assignments

- Programming homework includes implementing the concepts learned in the lecture in C++, previous systems programming experience recommended
- The assignments are managed via our GitLab
- Please join us on Mattermost

To get the bonus, please include your name (as displayed in TUMonline) and your matriculation number in the README.md file of at least one project in the following format:

Name: Lastname, Firstname
Matriculation number: finxxxxxx
System Statistics

- Total Active Users: 300
- Total Teams: 18
- Total Channels: 53
- Total Posts: 28,580

Daily Active Users: 43
Monthly Active Users: 99

Total Posts

Active Users With Posts

https://mattermost.db.in.tum.de/admin_console/system_analytics
Authorize GitLab Mattermost to use your account?

An application called GitLab Mattermost is requesting access to your GitLab account. Please note that this application is not provided by GitLab and you should verify its authenticity before allowing access.

This application will be able to:

- Access the authenticated user's API
  Grants complete read/write access to the API, including all groups and projects.

[Deny]  [Authorize]
Welcome to:

Mattermost

Your team communication all in one place, instantly searchable and available anywhere.
Keep your team connected to help them achieve what matters most.

Next  Skip tutorial
Beginning of Town Square

Welcome to Town Square!

Post messages here that you want everyone to see. Everyone automatically becomes a permanent member of this channel when they join the team.

Invite others to this team  Set a Header

Wed, Jan 23, 2019

System 9:00 AM
You and 3 others joined the team.

Write a message...
Beginning of Town Square

Welcome to Town Square!
Post messages here that you want everyone to see. Everyone automatically becomes a permanent member of this channel when they join the team.

System 9:00 AM
You and 3 others joined the team.

Write a message...