

















Warning: I will run cheating-detecting software

Six Labs

- Lab 1: Build a DBMS that can scan a relation on disk
 Part 1 of this lab is due on Friday!
- Lab 2: Build a DBMS that can run simple SQL queries and also supports data updates
 There will be a contest for the fastest DBMS
- Lab 3: Add a lock manager (transactions)
- Lab 5: Add a write-ahead log (transactions)
- Lab 4: Add a query optimizer
- Lab 6: Make your DBMS parallel!

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Logistics:

- To be done INDIVIDUALLY!
- · Each lab will take a significant amount of time

About the Labs

- · Labs build on each other
- Purpose
- · Hands-on experience building a DBMS
- · Deepen your understanding significantly
- We will build a *classical* DBMS
- After graduation, you will build *new-types* of DBMSs
 Will know the principles and will make your own design choices
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