

## Database Project IK 2006

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### Goal

A relational database plus GUI

*Applications:*

- Library
- Car dealer
- Marketplace (e.g. for car parts)
- Hotel
- Date site, Friends site
- other ...

## Course

Eight weeks

Requires: Database Theory, Java (or PHP)

Formal responsibility: Hamideh Afsarmanesh

Teaching assistants:

Simon Msanjila en ?

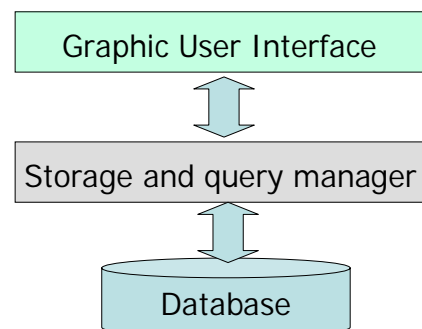
Tuesdays P 1.24

## General System Design

support two different users  
(e.g. manager vs. clerk)

retrieve, update, add,  
delete; error-checking;  
additional functions

at least 5 entities, each  
related to at least one other  
entity



### Deliverables

- User requirements (use scenario)
- E-R model
- Relational schema's
- Test database
- Set of basic functionalities
- GUI for two different types of users
- Short user and reference manual(s)
- Demonstration
- Report

### How?

In teams of 3–4 students, with two teams working on same application

### With?

- MySQL as database
- Java to build GUI
- JDBC to connect Java with MySQL

## Workplan

- Design (requirements, E-R model, schema's)
- Create tables, views, database fill
- Implement functions and error checking
- Implement a (simple) graphical user
- Test, document and demonstrate

## Teams

Compose your own team, provided it contains a reasonable balance of

- Programming skills
- Design skills
- Writing and presentation skills

Members will get same grade, unless staff or members find good grounds for differentiation

## Tools

**MySQL** – See [www.mysql.com](http://www.mysql.com) in particular ([dev.mysql.com](http://dev.mysql.com))

Databases on [dbm.science.uva.nl:3306](http://dbm.science.uva.nl:3306)

**JDBC** – JDBC the Java API for cross-DBMS connectivity to SQL databases and other tabular data sources, (spreadsheets)

(See <http://java.sun.com/products/jdbc/index.jsp>).

**MySQL Connector/J** - a JDBC driver to connect client Java applications to MySQL.

See <http://dev.mysql.com/usingmysql/java/>

**phpMyAdmin**