Database Systems

Marek Rychlý

Department of Information Systems, Faculty of Information Technology, Brno University of Technology

Office: No. C229
Phone: 541 141 240
E-mail: rychly@fit.vutbr.cz
WWW: http://www.fit.vutbr.cz/~rychly/.en

Content of the course:

1. Fundamental concepts of the database technology
2. Conceptual modelling, entity-relationship (E-R) models
3. The relational model of data
4. Mapping an E-R diagram into tables of a relational database
5. SQL language - data definition, data manipulation
6. Data at the internal level – indexing and hashing
7. Introduction to data security
8. Introduction to transactional processing

References

[1] Silberschatz, A, Korth, H.F.,Sudarshan, S.: Database system Concepts. Fourth Edition, WCB/McGRAW-HILL, 2002.

[2] Date ,C.J.: An Introduction to Database Systems. Volume 1, Eighth Edition, Adison Wesley, 2003.

[3] Ramakrishnan R.: Database Management Systems. WCB/McGraw-Hill, 1998.

The slides for this lecture were authored by Jaroslav Zendulka.