



Itä-Suomen ICT-polku

COURSE DATA

BASIC INFO

Name	Data Management and SQL		
Code	Savonia: ETA7400 Karelia: LTD6036 UEF: 3621255		
Name in Finnish	Tiedohallinta ja SQL		
Credits (ECTS)	5	Grading	0 - 5
Teaching period	1K		
Language	Finnish		
Type	Savonia: compulsory course Karelia: compulsory course UEF/TKT: compulsory course		



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DESCRIPTION

Objectives	After the course, the student understands the principles of relational database design and their mechanics; is familiar with Database Management Systems and their areas of usage; is able to create database design diagrams and implement them in real databases; is able to use graphical and shell based Database Management Systems; and is able to utilize databases as a part of an information system.
Content	Data management concepts; designing relational databases; concept analysis and Entity Relationship-diagrams (ER-diagrams); data models; basics of the SQL language; Database Management Systems (e.g. MariaDB); small-scale database based application development.
Modes of study	Exercises, project work (50%) and exam (50%).
Study materials	Electronic materials will be announced at the start of the course. Hovi, Huotari, Lahdenmäki: Tietokantojen suunnittelu & indeksointi. (Docendo, 2003)
Teaching methods	Pre-recorded theory lectures and voluntary weekly exercises
Prerequisites	
Other issues	