



## Itä-Suomen ICT-polku

### COURSE DATA

#### BASIC INFO

<b>Name</b>	Data Management and SQL		
<b>Code</b>	Savonia: ETA7400 Karelia: LTD6036 UEF: 3621411		
<b>Name in Finnish</b>	Tiedohallinta ja SQL		
<b>Credits (ECTS)</b>	5	<b>Grading</b>	0 - 5
<b>Teaching period</b>	1K		
<b>Language</b>	Finnish		
<b>Type</b>	Savonia: compulsory course Karelia: compulsory course UEF/TKT: compulsory course		



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### COURSE DESCRIPTION

<b>Objectives</b>	<p>You understand principles of relational database design and their mechanics</p> <p>You are familiar with Database Management Systems and areas of usage</p> <p>You are able to create database design diagrams and implement them to real databases</p> <p>You are able to use graphical and shell based Database Management Systems</p> <p>You are able to utilize databases as part of information system</p>
<b>Content</b>	<p>Data management concepts</p> <p>Designing relational databases</p> <p>Concept analysis and Entity Relationship-diagrams (ER-diagrams)</p> <p>Data models</p> <p>Basics of SQL language</p> <p>Database Management Systems (eg. MariaDB)</p> <p>Steps to database based application development</p>
<b>Modes of study</b>	<p>Exercises and exam.</p>
<b>Study materials</b>	<p>Electronic materials will be announced at the start of the course.</p> <p>Additional (Finnish) books: Hovi, Huotari, Lahdenmäki: Tietokantojen suunnittelu &amp; indeksointi, Hovi: SQL-opas</p>
<b>Teaching methods</b>	<p>Pre-recorded theory lectures and voluntary weekly exercises</p>
<b>Prerequisites</b>	
<b>Other issues</b>	