

SQL and relational databases

This course introduces students to basics of relational databases and SQL language.

Course theory is divided into 17 chapters of which 11 includes programming exercises.

Theory begins with basics of relational model and database design. Contents of these chapters are deepened in chapters 9 and 10, and 16 which demonstrates database normalisation. Chapters 4-8 teach how SQL language is used to implement database structure, insert data into database or update data in database and make basic queries. The latter part of the course offers more advanced techniques to use SQL queries and introduces students to use of views in relational databases.

SQL and relation databases includes 115 multiple-choice questions and 55 programming exercises related to chapters dealing with SQL language. Both theory parts (relational model and SQL language) include several examples which are also useful when doing exercises. Particularly theory related to SQL language is example-oriented and students' best tools for learning are programming exercises where SQL language must be applied correctly based on examples.

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