Technology
Arts Sciences
TH Köln

Course
DB2 - Data Base Systems 2

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⌃ General information

Long name	Data Base Systems 2
Approving CModule	DB2_BaTIN
Responsible	Prof. Dr. Andreas Behrend Professor Fakultät IME
Level	Bachelor
Semester in the year	summer semester
Duration	Semester
Hours in self-study	60
ECTS	5
Professors	NF Büchel
Requirements	Basic Course Mathematics Basic Course Computer Science Data Base Systems 1
Language	German
Separate final exam	Yes

Final exam

Details

Examination questions are programming of XML parser functions for generating insert- or update-commands, definition of a XML grammar using XML scheme, transformation of a UML class diagramm in a sequence of abstract data types, transformation of abstract data types in object-relational data types and in JSON types, insert- and delete-operations in Bayer trees.

Minimum standard

Programming of a XML parser functions for generating an insert- or an update-commands,

Transformation of an abstract data type in the scheme of a JSON type,

An insert- or a delete-operation of a key in a Bayer tree.

Exam Type

Examination questions are programming of XML parser functions for generating insert- or update-commands, definition of a XML grammar using XML scheme, transformation of a UML class diagramm in a sequence of abstract data types, transformation of abstract data types in object-relational data types and in JSON types, insert- and delete-operations in Bayer trees.

⌃ Lecture / Exercises

Learning goals

Knowledge

XML Grammar with XML scheme
abstract data types
object oriented data bases
object relational data bases
NoSQL data bases
Bayer trees

Expenditure classroom teaching

Type	Attendance (h/Wk.)
Lecture	2
Exercises (whole course)	0
Exercises (shared course)	2
Tutorial (voluntary)	0

Separate exam

⌃ Practical training

Learning goals

Skills

Definition of XML schemes, of abstract data types, of data types in object-relational data bases. Programming of CRUD Operations on object-relational data bases and on NoSQL data bases. Validating parsing of JSON documents.

Expenditure classroom teaching

Type	Attendance (h/Wk.)
Practical training	1
Tutorial (voluntary)	0

Separate exam