

Course

DB2 - Data Base Systems 2

Version: 1 | Last Change: 11.09.2019 19:04 | Draft: 0 | Status: vom verantwortlichen Dozent freigegeben

^

General information

Long name	Data Base Systems 2
Approving CModule	<a href="#">DB2 BaTIN</a>
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

none

^ 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

none