

Course Manual DB2

Data Base Systems 2

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– General information

Long name	Data Base Systems 2
Approving CModule	<u>DB2_BaTIN</u>
Responsible	Prof. Dr. Andreas Behrend Professor Fakultät IME
Valid from	summer semester 2022
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

Literature

C. Türker: SQL 1999 & SQL 2003

St. Edlich: NoSQL Datenbanken

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

EN Klausur

– Lecture / Exercises

Learning goals

Goal type	Description
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

Special requirements

none

Accompanying material

Script "Data Base Systems 2" (on the WEB-Page and as printed text); a lot of examples of XML parser programmes using XML scheme and programmes for object relational data bases and for NoSQL data bases.

Separate exam

No

– Practical training

Learning goals

Goal type	Description
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.

Special requirements

none

Expenditure classroom teaching

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

Accompanying material

Script "Data Base Systems 2" (on the WEB-Page and as printed text); a lot of examples of XML parser programmes using XML scheme and programmes for object relational data bases and for NoSQL data bases.

Separate exam

No