Relational Databases & Data warehousing

Situering

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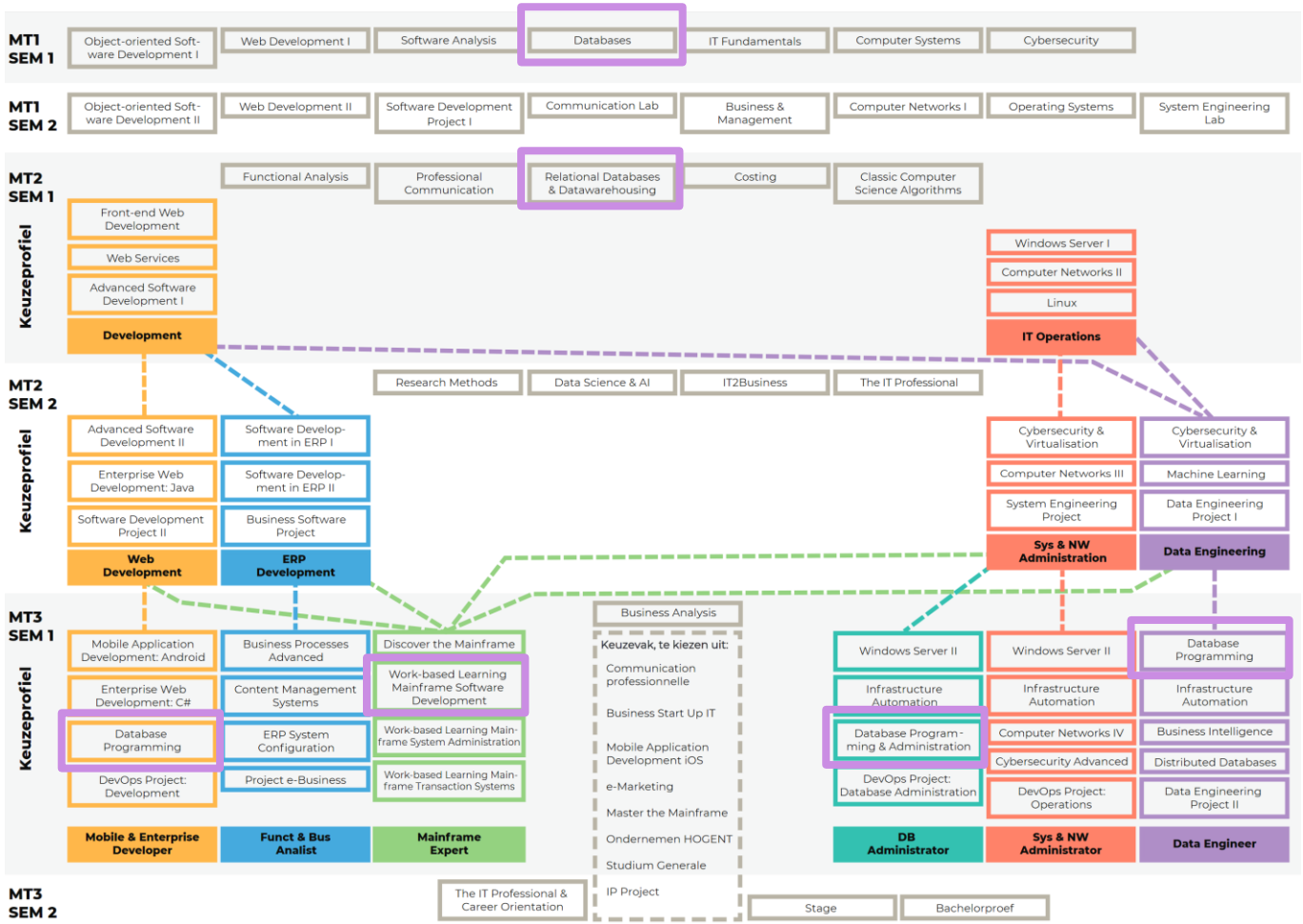
MT1 SEM 1
Object-oriented Software Development I
Web Development I
Software Analysis
Databases
IT Fundamentals
Computer Systems
Cybersecurity
MT1 SEM 2
Object-oriented Software Development II
Web Development II
Software Development Project I
Communication Lab
Business & Management
Computer Networks I
Operating Systems
System Engineering Lab
MT2 SEM 1
Functional Analysis
Professional Communication
Relational Databases & Datawarehousing
Costing
Classic Computer Science Algorithms
Keuzeprofiel
Front-end Web Development
Web Services
Advanced Software Development I
Development
Windows Server I
Computer Networks II
Linux
IT Operations
MT2 SEM 2
Research Methods
Data Science & AI
IT2Business
The IT Professional
Keuzeprofiel
Advanced Software Development II
Enterprise Web Development: Java
Software Development Project II
Web Development
Software Development in ERP I
Software Development in ERP II
Business Software Project
ERP Development
Cybersecurity & Virtualisation
Computer Networks III
System Engineering Project
Sys & NW Administration
Cybersecurity & Virtualisation
Machine Learning
Data Engineering Project I
Data Engineering
MT3 SEM 1
Keuzeprofiel
Mobile Application Development: Android
Enterprise Web Development: C#
Database Programming
DevOps Project: Development
Mobile & Enterprise Developer
Business Processes Advanced
Content Management Systems
ERP System Configuration
Project e-Business
Funct & Bus Analist
Discover the Mainframe
Work-based Learning Mainframe Software Development
Work-based Learning Mainframe System Administration
Work-based Learning Mainframe Transaction Systems
Mainframe Expert
Business Analysis
Keuzevak, te kiezen uit:
Communication professionnelle
Business Start Up IT
Mobile Application Development iOS
e-Marketing
Master the Mainframe
Ondernemen HOGENT
Studium Generale
IP Project
Windows Server II
Infrastructure Automation
Database Programming & Administration
DevOps Project: Database Administration
DB Administrator
Windows Server II
Infrastructure Automation
Computer Networks IV
Cybersecurity Advanced
DevOps Project: Operations
Sys & NW Administrator
Database Programming
Infrastructure Automation
Business Intelligence
Distributed Databases
Data Engineering Project II
Data Engineer
MT3 SEM 2
The IT Professional & Career Orientation
Stage
Bachelorproef

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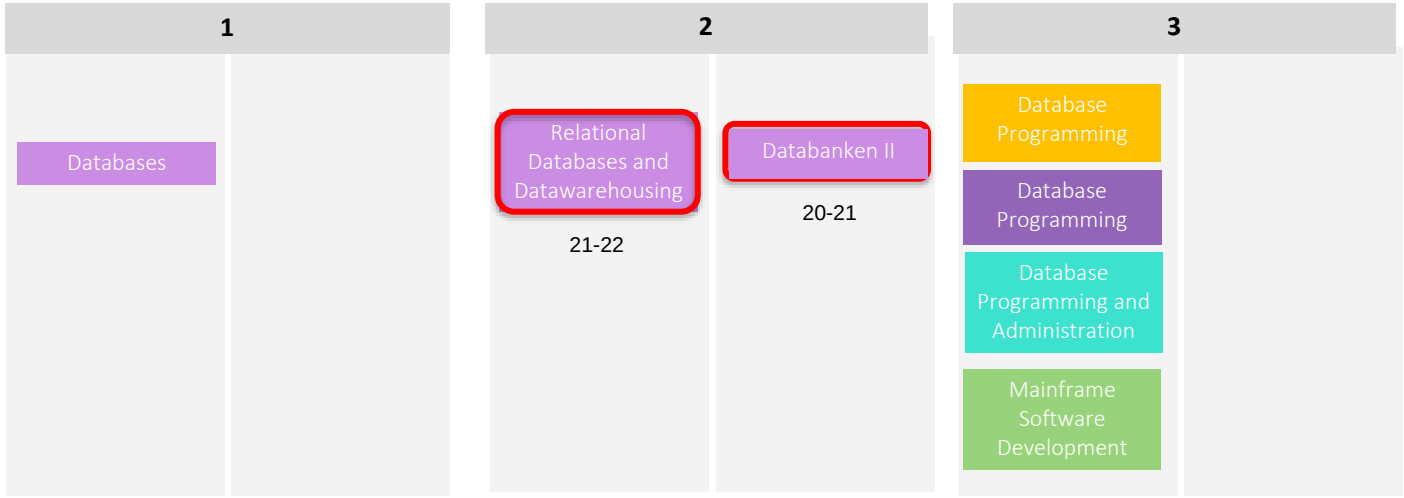
Store and Manage

De student kan complexe verzamelde informatie analyseren en verwerken tot de meest geschikte gestructureerde databases die hij/zij met het oog op performantie, efficiënt beheert en gebruikt.



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Objectives-ECTS

- Is able to manage relational databases.
- Is able to elaborate complex query statements.
- Is able to write the appropiate SQL statements for a demand for information.
- Is able to write queries using a minimum of computer ressources.
- Is able to handle data exchange formats within a relational database context.
- Is able to explain the use of transactions.
- Is able to explain the recovery techniques for transactions.
- Is able to explain the use and the function of datawarehousing and datamarts.
- Is able to create analytical cubes.
- Is able to develop BI reports using an OLTP database as well as using a datawarehouse.
- Is able to use Business Intelligence in function of a business requirement.
- Is able to explain the importance of NoSQL databases.
- Is able to describe different kinds of NoSQL datases.
- Is able to explain the function of in memory databases.

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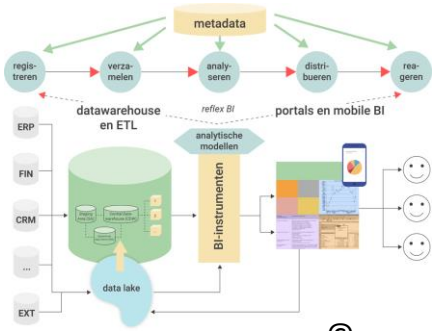
Contents

- SQL: DML, DDL, CTE, UDT
- Datawarehousing
- Transactions
- NoSQL



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Overview

Teachers:

- Chloé De Leenheer
- Sabine De Vreese
- Joeri Van Herreweghe

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Overview

Lessons - organisation:

- For regular students: 2x 2 hours / week

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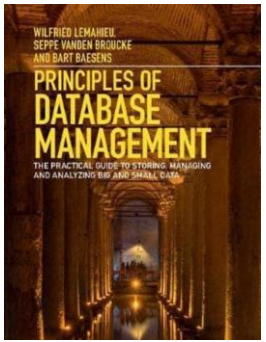
Overview

Course material:



- Presentations and exercices: Chamilo
- SQL Server (see installation guidelines on Chamilo)
- Reference book: Principles of Database Management
  - Wilfried Lemahieu, Seppe vanden Broucke, Bart Baesens
  - isbn 9781107186125
  - E-book exists as well

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Overview

Evaluation:

- First exam chance:
  - Written examination (not using MS SQL Server): 40%
  - Written examination (SQL using MS SQL Server): 60%
- Re-sit exam :
  - Written examination (not using MS SQL Server): 40%
  - Written examination (SQL using MS SQL Server): 60%
- Practical: to be determined (online/on campus)

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