

Von der Standardisierung der Informationssicherheit zur Automatisierung der Security-Standards

DFN-Konferenz

4.2.2022

David Fuhr







David Fuhr

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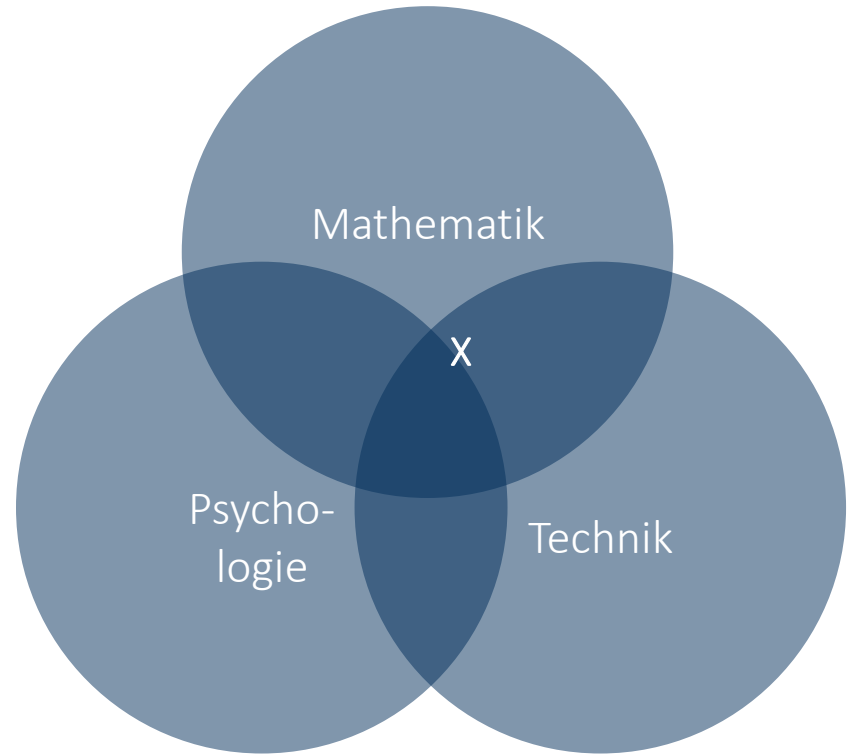




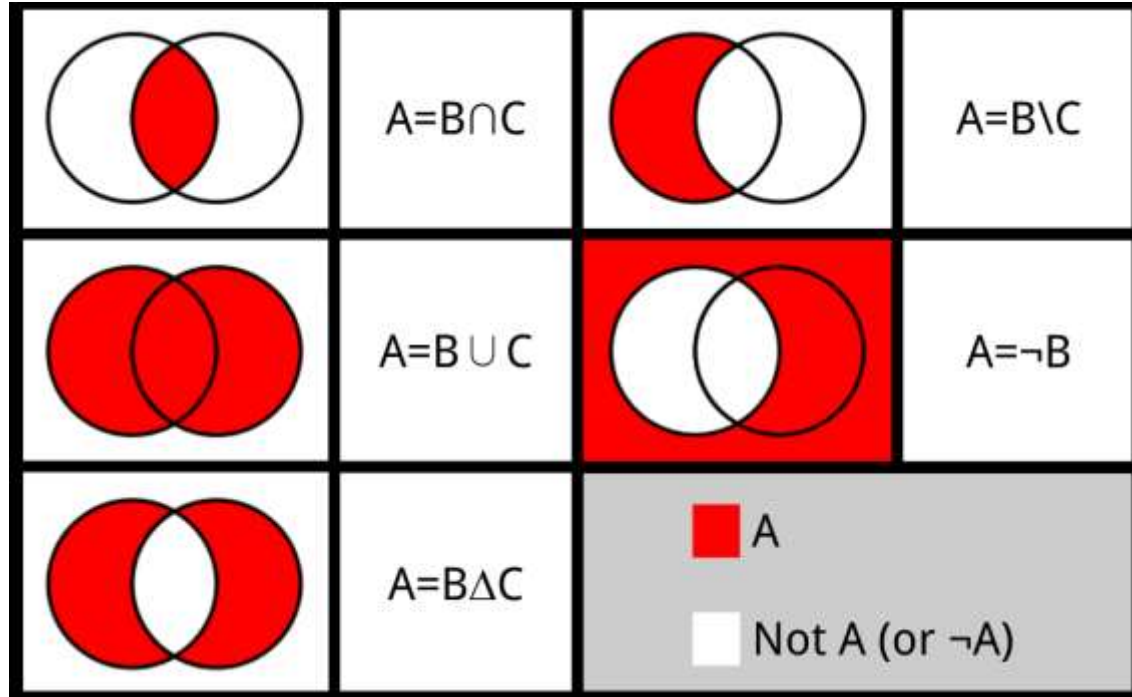
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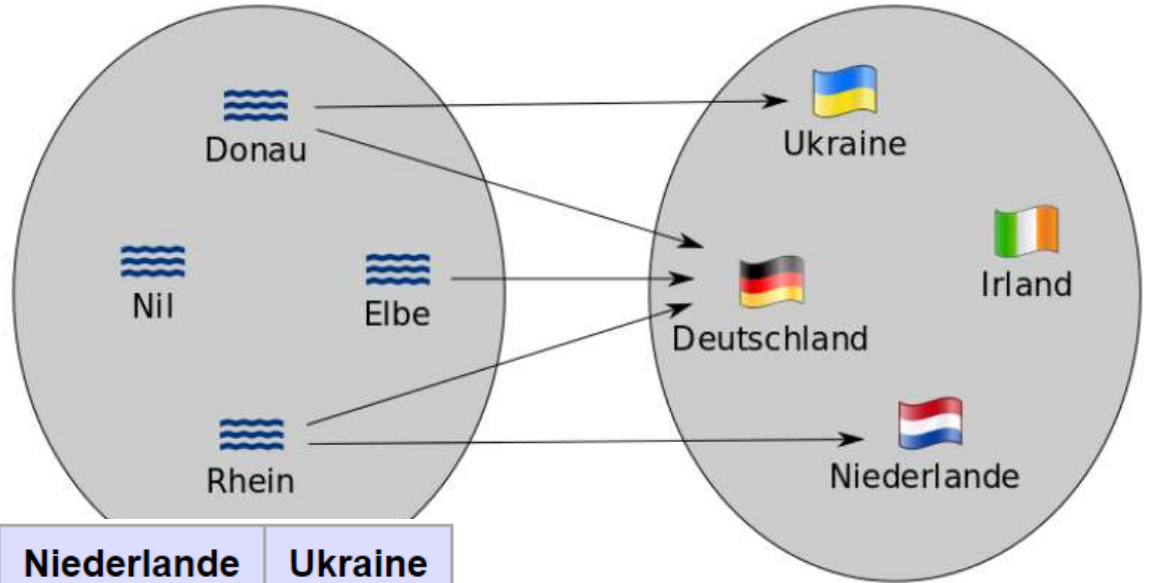




Mengen

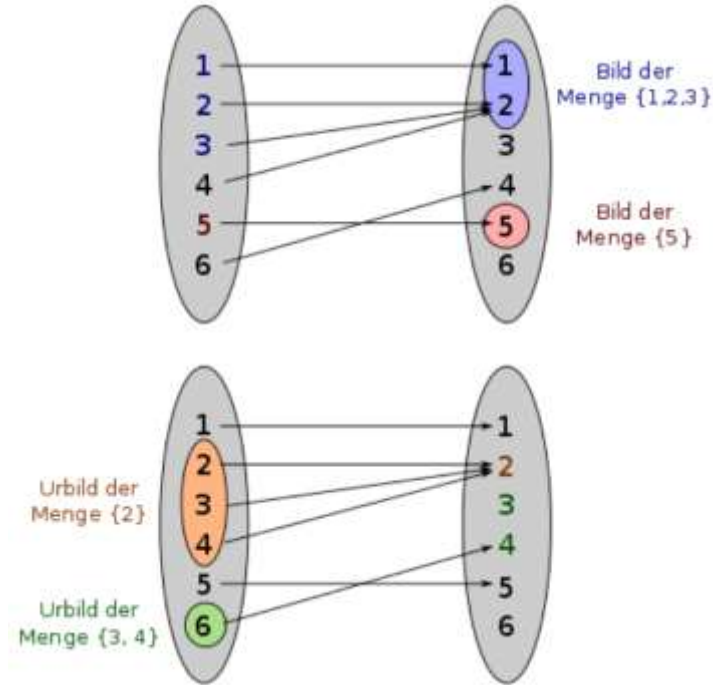


Relationen

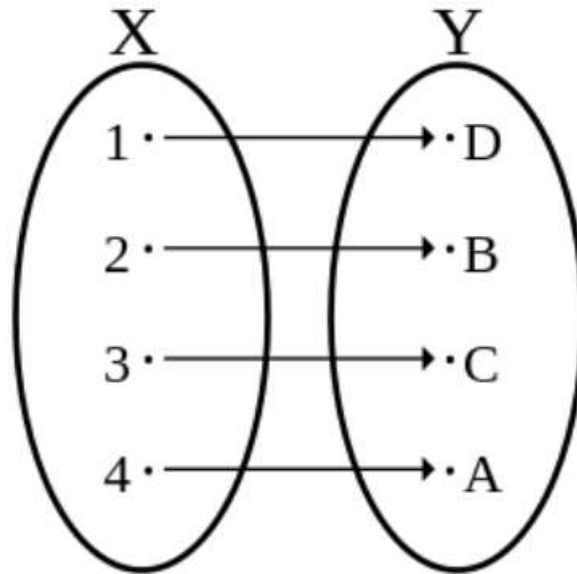


	Irland	Deutschland	Niederlande	Ukraine
Donau		X		X
Elbe		X		
Nil				
Rhein		X	X	

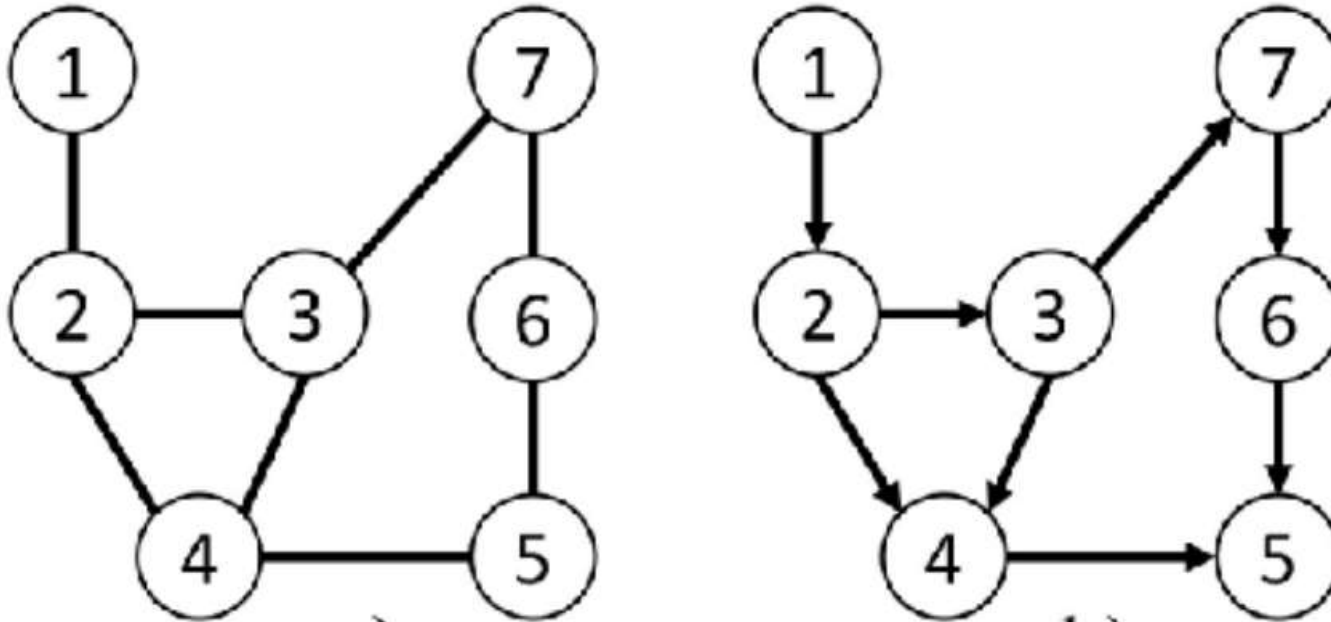
Abbildungen/Funktionen



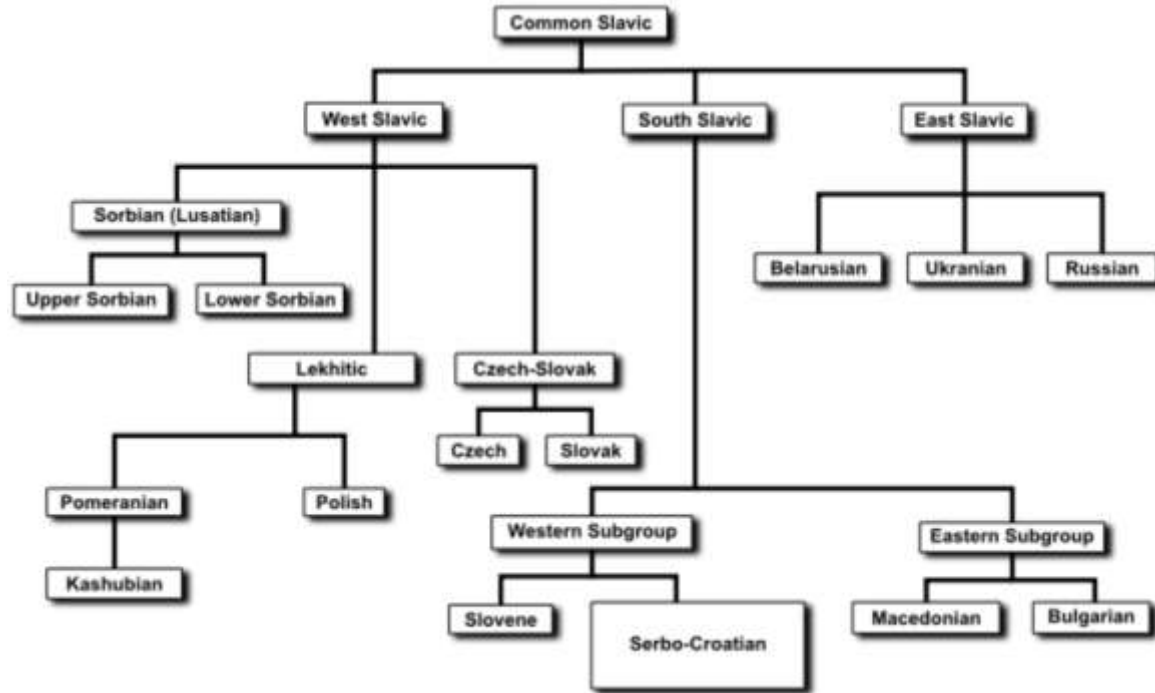
Abzählen + Ordnung



Graphen



Bäume



DEUTSCHE NORM

Juni 2017

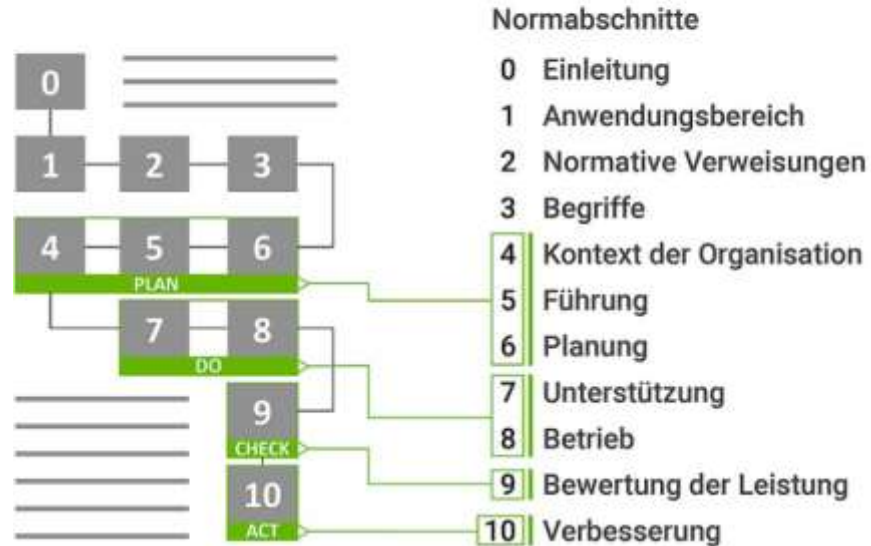
DIN EN ISO/IEC 27001

DIN



„PDCA“

HIGH LEVEL STRUCTURE DIN SPEC 36601





Bundesamt
für Sicherheit in der
Informationstechnik

IT-Grundschutz- Kompendium

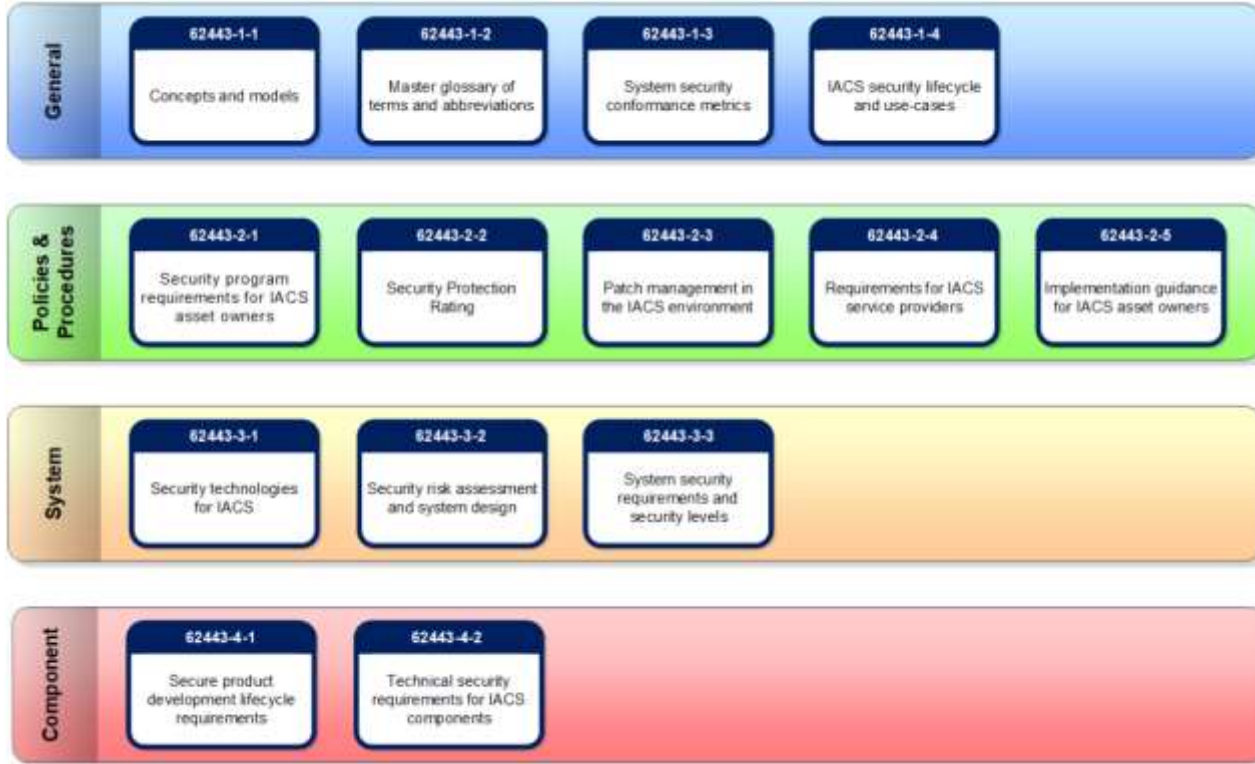


XML-Version des IT-Grundschutz- Kompodiums (Edition 2022)

Datum 01.02.2022

XML-Version der Edition 2022 des IT-Grundschutz-Kompodiums zur Nutzung.

IEC 62443




Security Levels

SL 1	Protection against casual or coincidental violation
SL 2	Protection against intentional violation using simple means with low resources, generic skills and low motivation
SL 3	Protection against intentional violation using sophisticated means with moderate resources , IACS specific skills and moderate motivation
SL 4	Protection against intentional violation using sophisticated means with extended resources , IACS specific skills and high motivation

IEC 62443-3-3

SRs and REs		SL 1	SL 2	SL 3	SL 4
FR 1 – Identification and authentication control (IAC)					
SR 1.1 – Human user identification and authentication	5.3	✓	✓	✓	✓
SR 1.1 RE 1 – Unique identification and authentication	5.3.3.1		✓	✓	✓
SR 1.1 RE 2 – Multifactor authentication for untrusted networks	5.3.3.2			✓	✓
SR 1.1 RE 3 – Multifactor authentication for all networks	5.3.3.3				✓
SR 1.2 – Software process and device identification and authentication	5.4		✓	✓	✓
SR 1.2 RE 1 – Unique identification and authentication	5.4.3.1			✓	✓
SR 1.3 – Account management	5.5	✓	✓	✓	✓
SR 1.3 RE 1 – Unified account management	5.5.3.1			✓	✓
SR 1.4 – Identifier management	5.6	✓	✓	✓	✓
SR 1.5 – Authenticator management	5.7	✓	✓	✓	✓
SR 1.5 RE 1 – Hardware security for software process identity credentials	5.7.3.1			✓	✓
SR 1.6 – Wireless access management	5.8	✓	✓	✓	✓
SR 1.6 RE 1 – Unique identification and authentication	5.8.3.1		✓	✓	✓
SR 1.7 – Strength of password-based authentication	5.9	✓	✓	✓	✓
SR 1.7 RE 1 – Password generation and lifetime restrictions for human users	5.9.3.1			✓	✓

A hand is pointing towards a white rectangular box containing the text 'IEC 62443-2-4'. The background is a dark blue wall. To the left, there is a piece of black equipment with various cables and connectors.

IEC 62443-2-4



Everything Is A Database

Photo by [Jan Antonis Kolar](#) on [Unsplash](#)



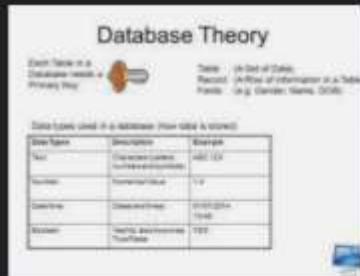
theory - ICD...
- In stock



Database Theory and A...
kulturkaufhaus.de



Database Theory and A...
amazon.com



Database Theory Each Table in a ...
pinterest.pt



Perspectives on databa...
dl.acm.org



What is Database Theory? | USF Health ...
usfhealthonline.com



Database Theory - Lecture 1 ...
iccl.inf.tu-dresden.de



Design and R...



Database Theory - ICD...
kulturkaufhaus.de

StudentId	Name	CourseId
S1	Anne	C1
S1	Anne	C2
S2	Boris	C1
S3	Cindy	C3

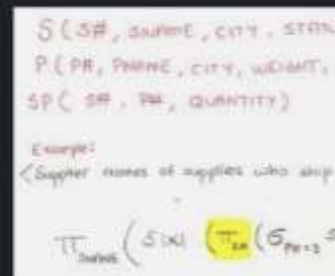
Relational Database Theory ...
semanticscholar.org



Database schema - Wikipedia
en.wikipedia.org



Exercises on Relational...
bookboon.com



Natural Join in Relational Algebra ...
stackoverflow.com

searches

relational database

simple relational database example

relational database model



Database Theory and Appli...
oreilfuessli.ch



Exercises on Relational Databas...
yumpu.com



eBook: Algebraic Structure...
lehmanns.de

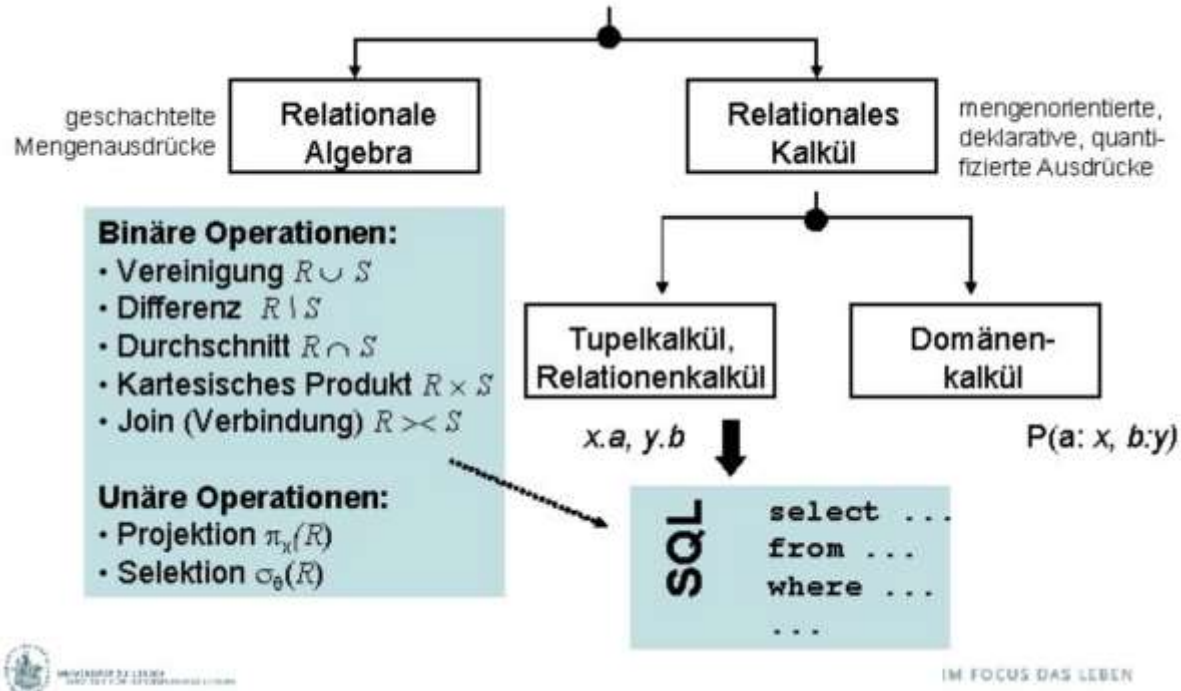


Relational Database Theory ...
mobile.databasejournal.com



Relational databas...
booklooker.de - In st...

Relationale Algebren und Kalküle



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