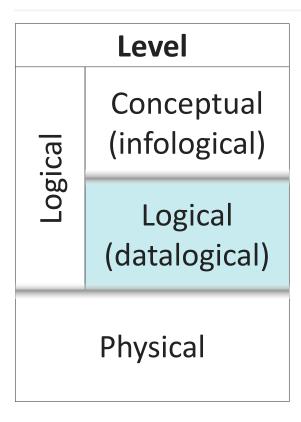
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Datalogical Modelling Techniques and Tools

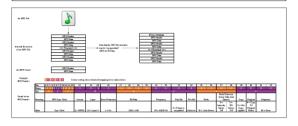
Relational Databases Basics



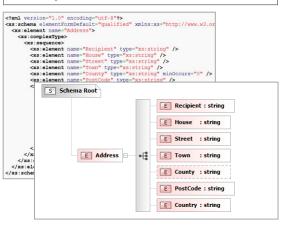
Datalogical level: representation types



Data specifications

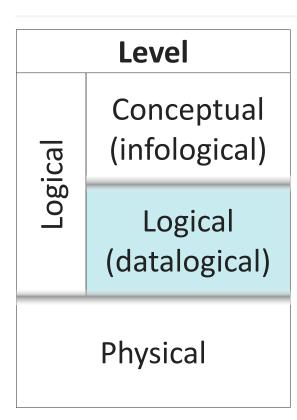


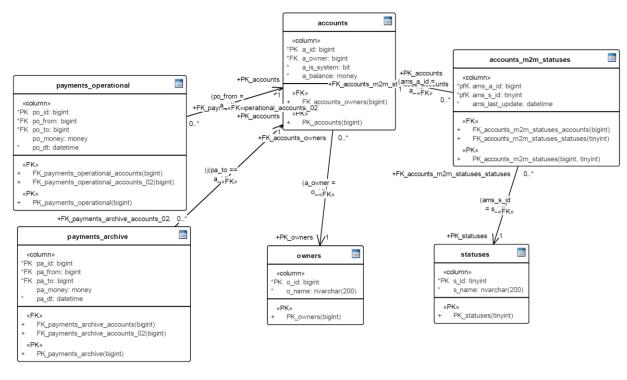
Special formats



Graphical representation (schemas)

Datalogical level: UML schemas





Necessary knowledge

In ideal situation	At least
Deep relational theory understanding	Basic relational theory understanding
Deep normalization understanding	Basic understanding of 1-3 normal forms
Deep SQL understanding	Basic SQL understanding
Deep knowledge of selected DBMS	Basic knowledge of selected DBMS
Deep modelling tool knowledge	Basic modelling tool knowledge

Before you begin modelling

DBMS convention	DB convention
DBMS type	Structures naming
Particular DBMS	SQL code formatting
Minimal DBMS version	Comments principles
DBMS infrastructure details	Other specifics (like API, and so on)

Specific tools for each DBMS

MySQL Workbench

SQL Server Management Studio

SQL Developer Data Modeler

• • •









Universal tools

Sparx Enterprise Architect



DbSchema



DbDiagram.io



• • •

Why universal tools?

No "direct DB manipulations" (zero chance to break DB)

Multiple DBMS support (easy to compare and convert)

Most "specific tools" weak spots are eliminated

User friendly interface, good support, and so on...

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Datalogical Modelling Techniques and Tools

Relational Databases Basics

