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Datalogical Modelling Objectives

Relational Databases Basics

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Levels of Database Modelling

Level		It describes…	It operates…
Logical	Conceptual (infological)	Subject matter regardless database type	Entities, attributes, some relationships
Logical	Logical (datalogical)	Subject matter regarding database type or DBMS	Entities, attributes, relationships, keys, some indexes and views
Physical		Technical aspects regarding DBMS	Entities, attributes, relationships, keys, indexes, views, triggers, stored routines, storage engines, encodings, permissions, etc.

Read and remember!

Logical (Datalogical) Level – a level of consideration at which all aspects deal with a database and its architecture, consistent with a conceptual schema and the corresponding information base, but abstract from its physical implementation.

The main objective

We have to create a model that represents database structure in the best way possible.

Points to consider

- Subject matter analysis
- Top-down & bottom-up
- Technical aspects

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It never ends. With each iteration we discover new details.

Points to consider

Subject matter analysis

Top-down & bottom-up

Technical aspects

We have to take both ways to make our database both subject matter adequate and application level usable.

Points to consider

Subject matter analysis

Top-down & bottom-up

Technical aspects

A lot of technical questions arise here. So, we have to understand target DBMS, SQL, relational theory and so on…

P.S.

This level in general looks rather similar to Infological Modelling, but here we concentrate on database structure and technical details.

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