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# Database Modelling in More Details

**Relational Databases Basics** 



### A quick reminder...

Level		It describes	It operates	
Logical	Conceptual (infological)	Subject matter regardless database type	Entities, attributes, some relationships	
	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.	

### Infological level: representation types

### Level Conceptual Logical (infological) Logical (datalogical) **Physical**

### Text (lists)

### Text (tables)

#### File:

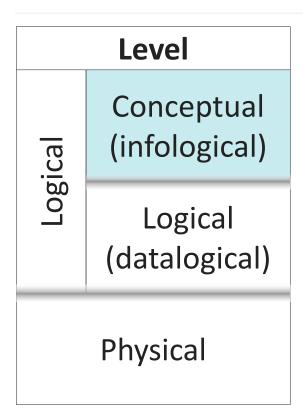
- id;
- owner;
- size;
- name;
- date.

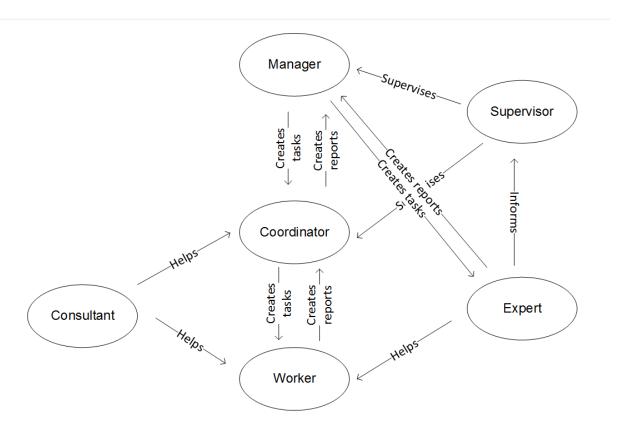
id	owner	size	name	date
integer	integer	integer	string	date

### Graphical representation (schemas)

We shall review it in a minute...

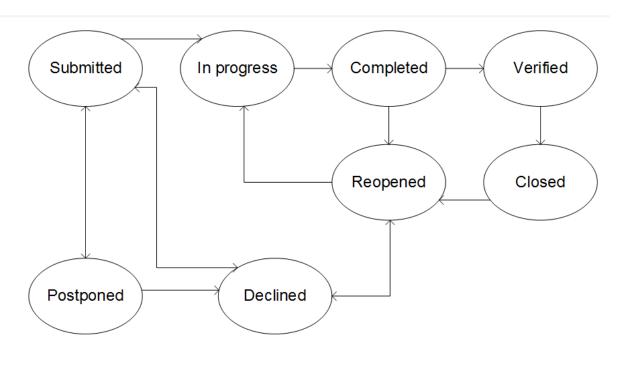
### Infological level: semantic model



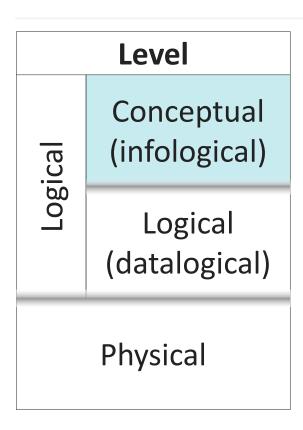


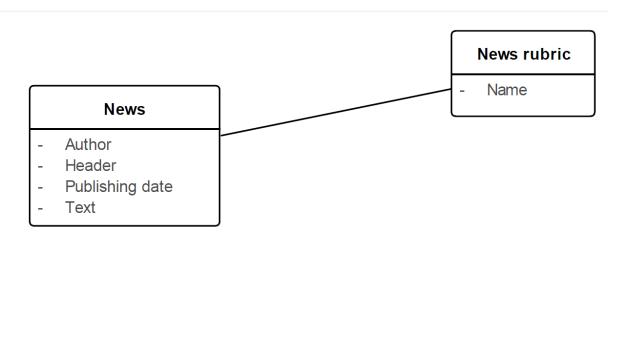
### Infological level: graph model

## Level Conceptual Logical (infological) Logical (datalogical) Physical

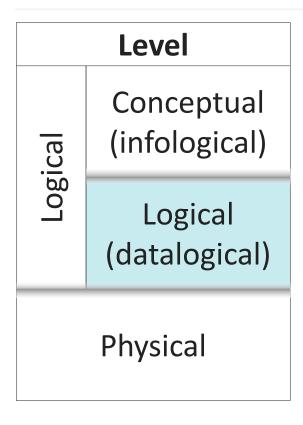


### Infological level: entity-relation model

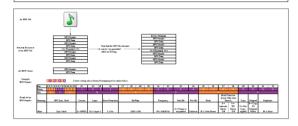




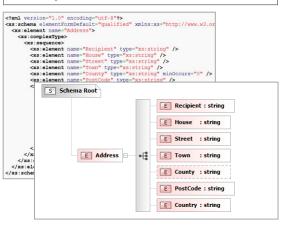
### Datalogical level: representation types



### Data specifications



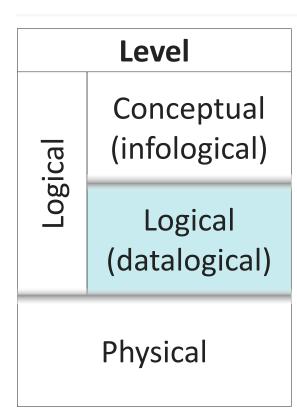
### Special formats

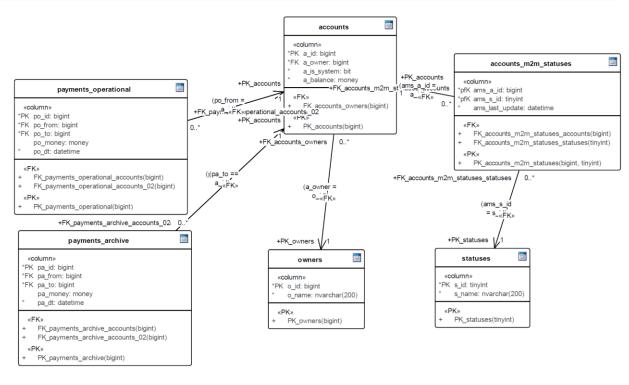


### Graphical representation (schemas)

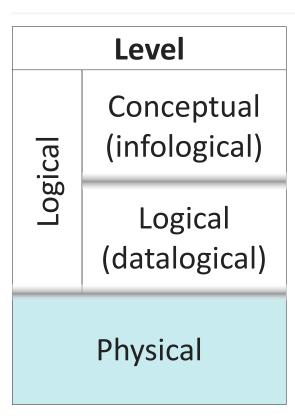
We shall review it in a minute...

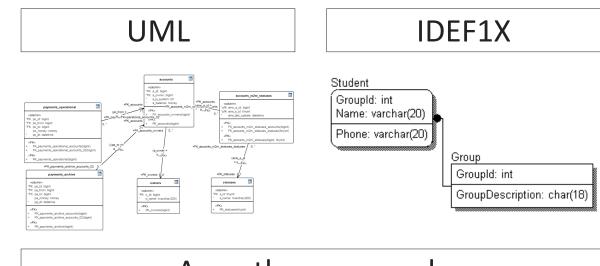
### Datalogical level: UML schemas





#### Physical level: representation types





### Any other approach

This level representation highly depends on DBMS type, DBMS itself, goal to achieve and so on...

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