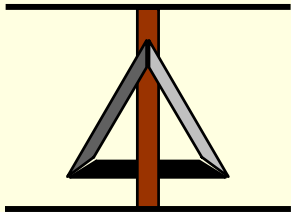


Data Model Patterns: A Metadata Map

East Coast Regional DAMA 2006

David C. Hay

May-June, 2006



Essential Strategies, Inc.

13 Hilshire Grove Lane, Houston, TX 77055

☎ (713) 464-8316

✉ dch@essentialstrategies.com

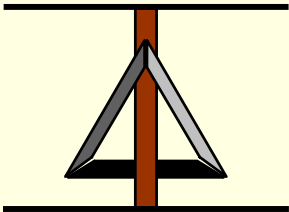
🌐 www.essentialstrategies.com

One of the many reasons for the bewildering and tragic character of human existence is the fact that social organization is at once necessary and fatal. Men are forever creating such organizations for their own convenience and forever finding themselves the victims of their home-made monsters.

Aldous Huxley

Variations on a Philosopher

Column 4: people And organizations



Essential Strategies, Inc.







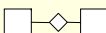
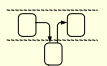





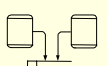
















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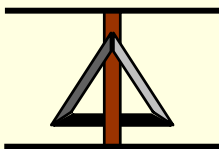
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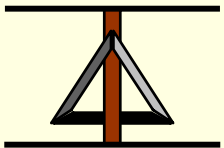
🌐 www.essentialstrategies.com

The Architecture Framework . . .

	Data (What)	Activities (How)	Locations (Where)	People (Who)	Time (When)	Motivation (Why)
Objectives / Scope (Planner's view)	List of things important to the enterprise 	List of processes the enterprise performs 	List of enterprise locations 	Organization approaches 	Business master schedule 	Business vision and mission 
Enterprise model (Business Owners' Views)	Language, divergent data model 	Business process model 	Logistics network 	Organization chart 	State / transition diagram 	Business strategies, tactics, policies, rules 
Model of Fundamental Concepts (Architect's View)	Convergent e/r model 	Essential data flow diagram 	Locations of roles 	The viable system, use cases 	Entity Life History 	Business rule model 
Technology Model (Designer's View)	Data base design 	System design, program structure 	Hardware, software distribution 	User interface, security design 	Control structure 	Business rule design 
Detailed Representation (Builder's View)	Physical storage design 	Detailed program design 	Network architecture, protocols 	Screens, security coding 	Timing definitions 	Rule specification program logic 
Functioning System	<i>(Working System)</i>					
	Converted data	Executable programs	Communications facilities	Trained people	Business events	Enforced rules



From the business model . . .



PERSON

- * GIVEN NAME
- o MIDDLE INITIAL
- * SURNAME

ORGANIZATION

- * ORGANIZATION NAME
- * DESCRIPTION

COMPANY

- * DATE OF INCORPORATION

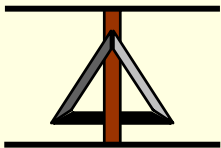
INTERNAL ORGANIZATION

GOVERNMENT AGENCY

SEMANTIC COMMUNITY

SPEECH COMMUNITY

OTHER ORGANIZATION



PARTY

ID

PERSON

- * GIVEN NAME
- o MIDDLE INITIAL
- * SURNAME

ORGANIZATION

- * ORGANIZATION NAME
- * DESCRIPTION

COMPANY

- * DATE OF INCORPORATION

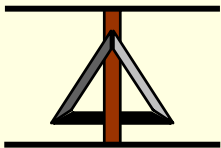
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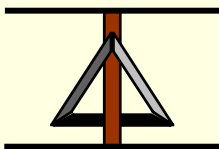
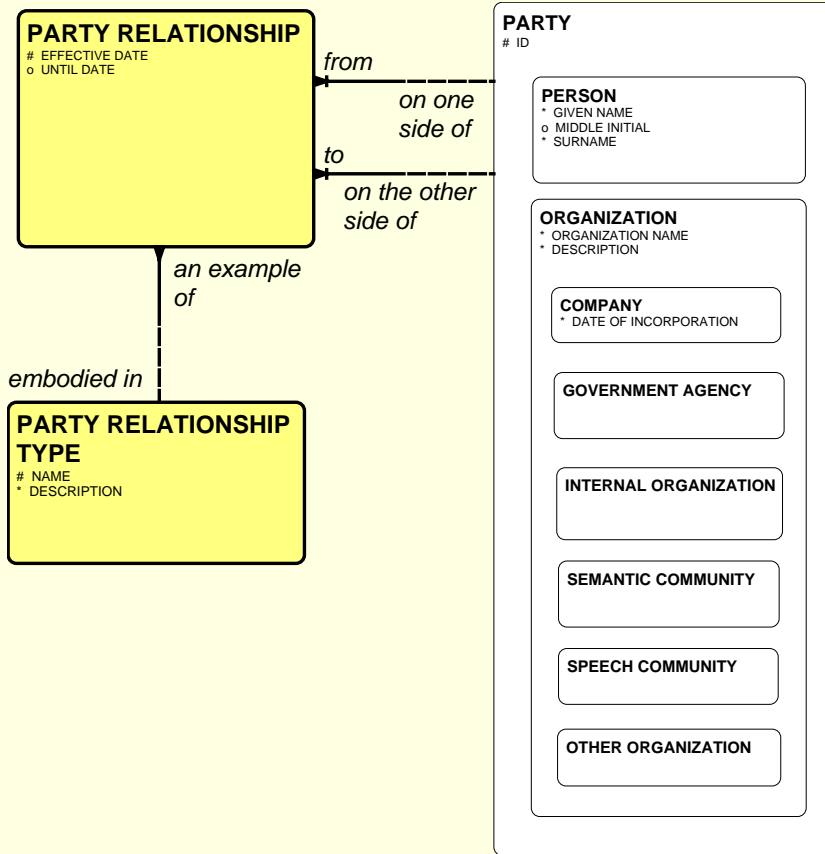
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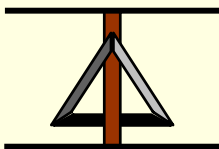
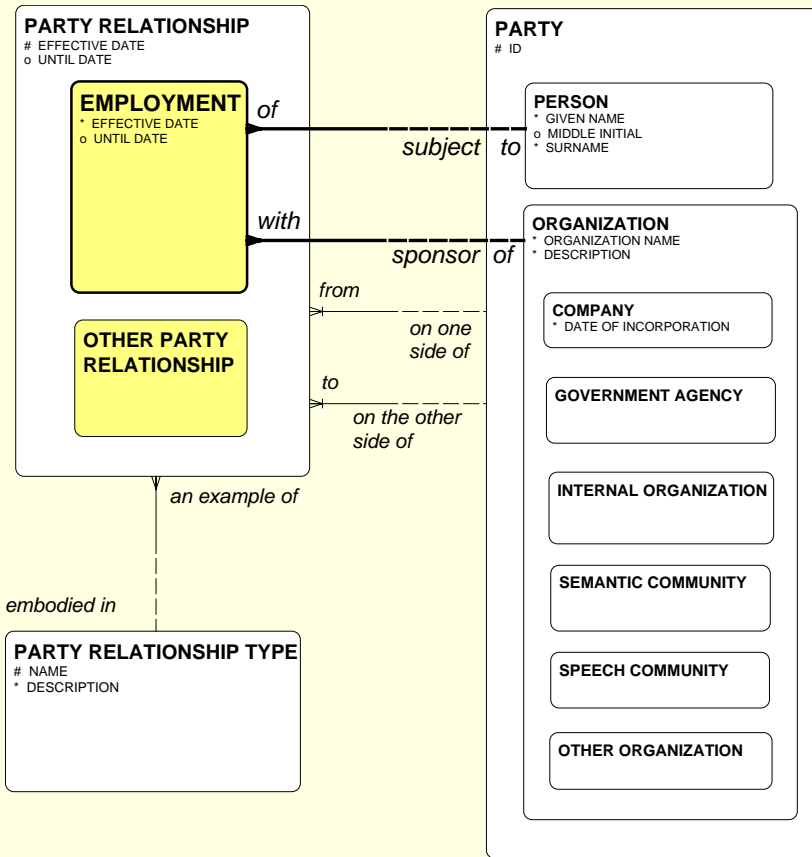
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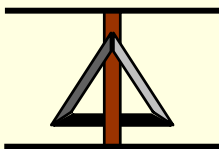
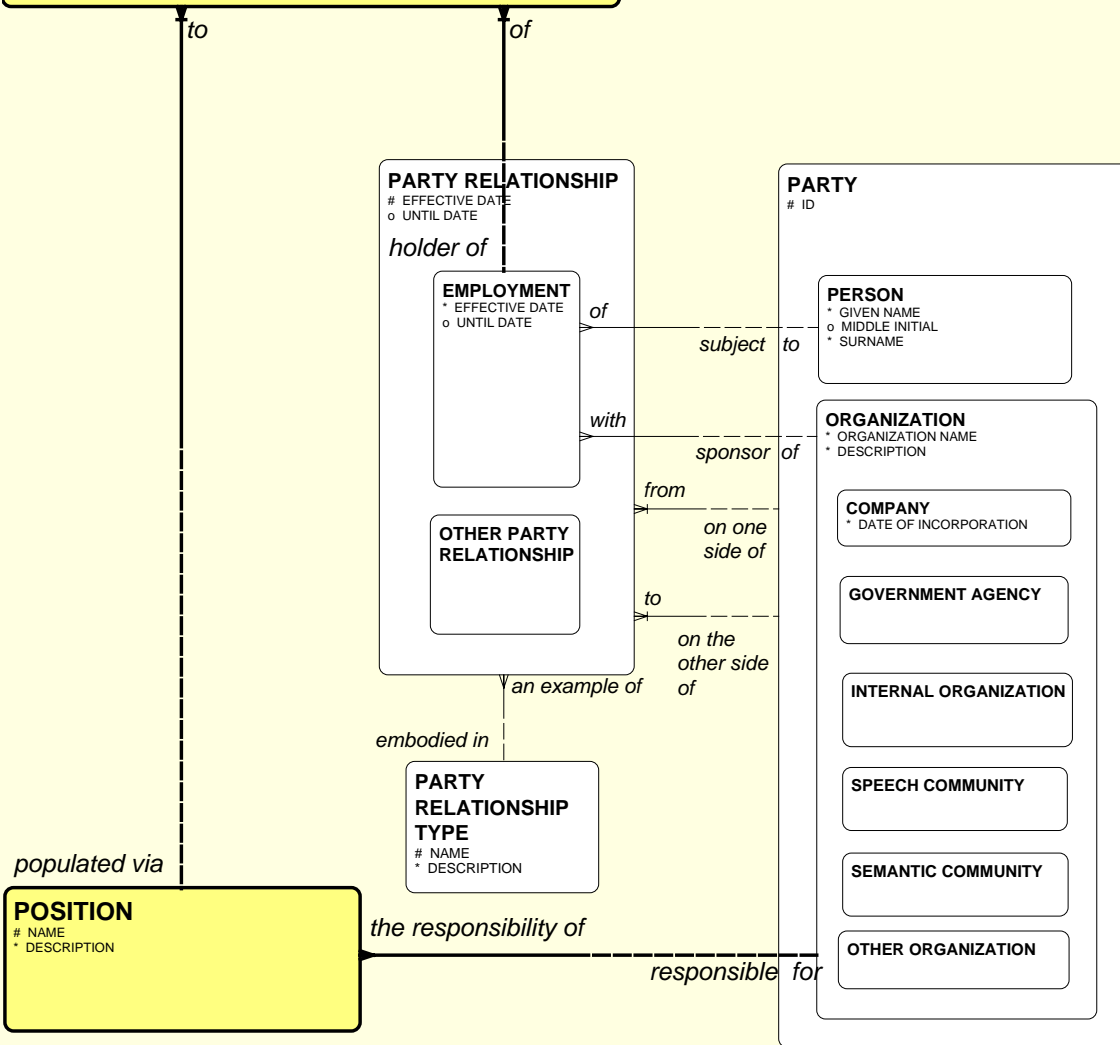
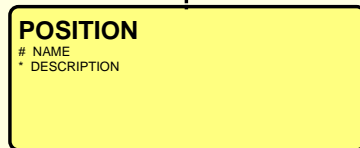
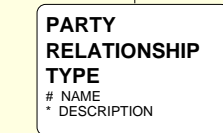
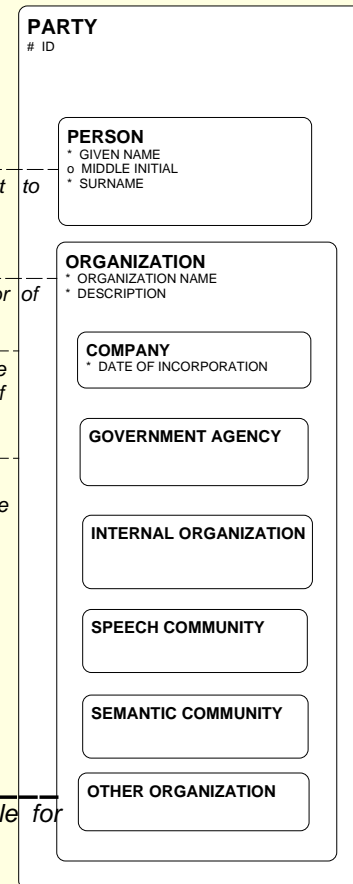
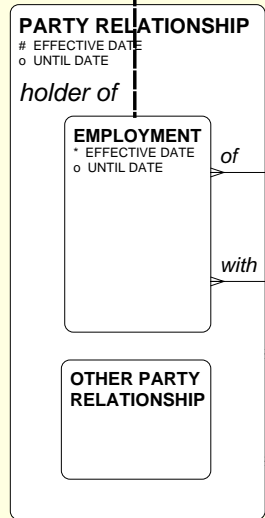
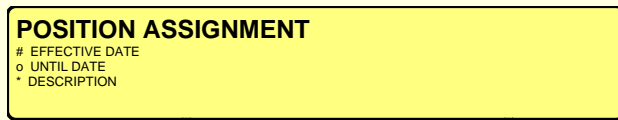
SPEECH COMMUNITY

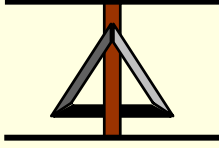
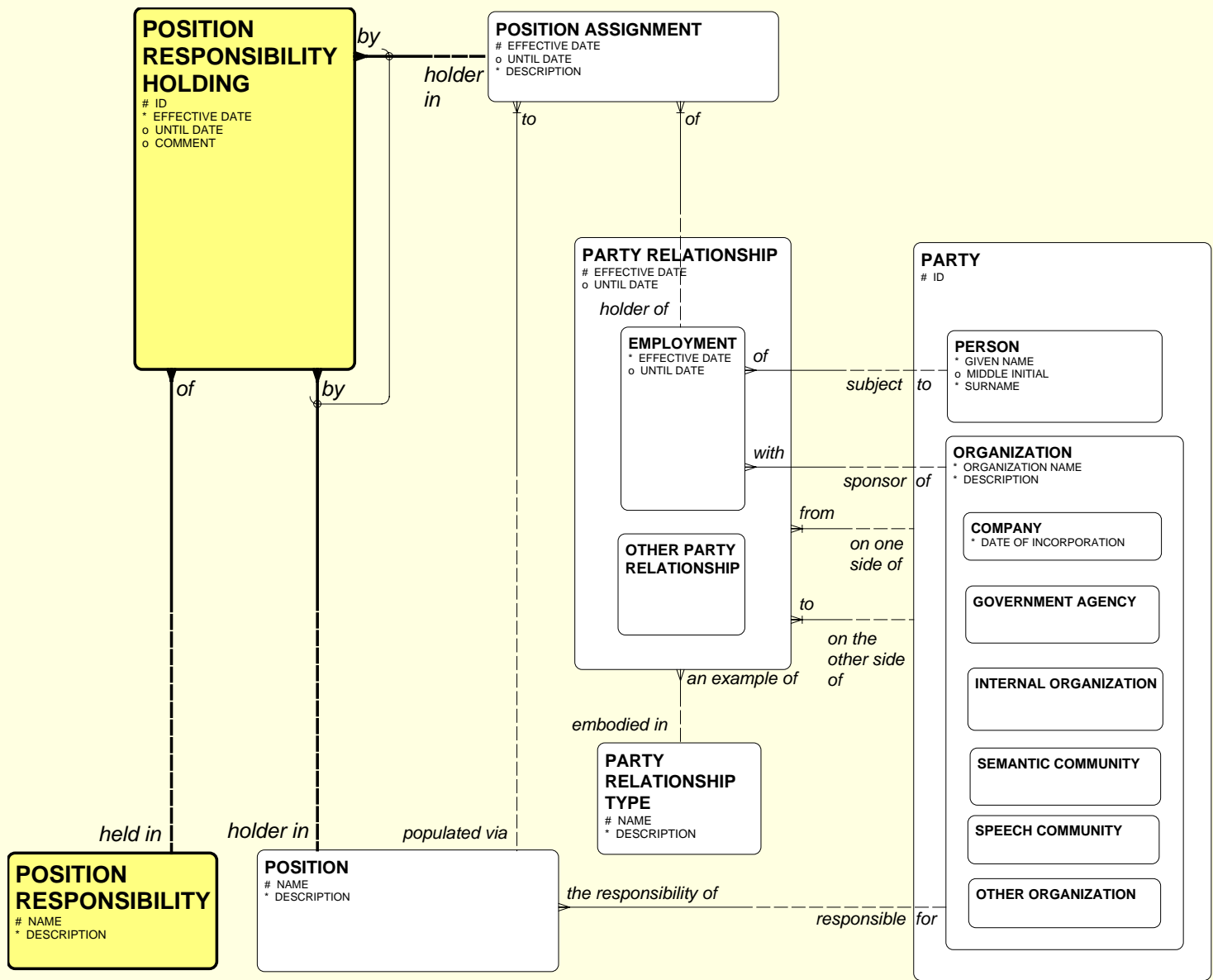
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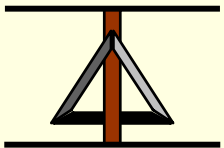


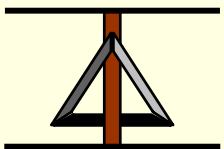
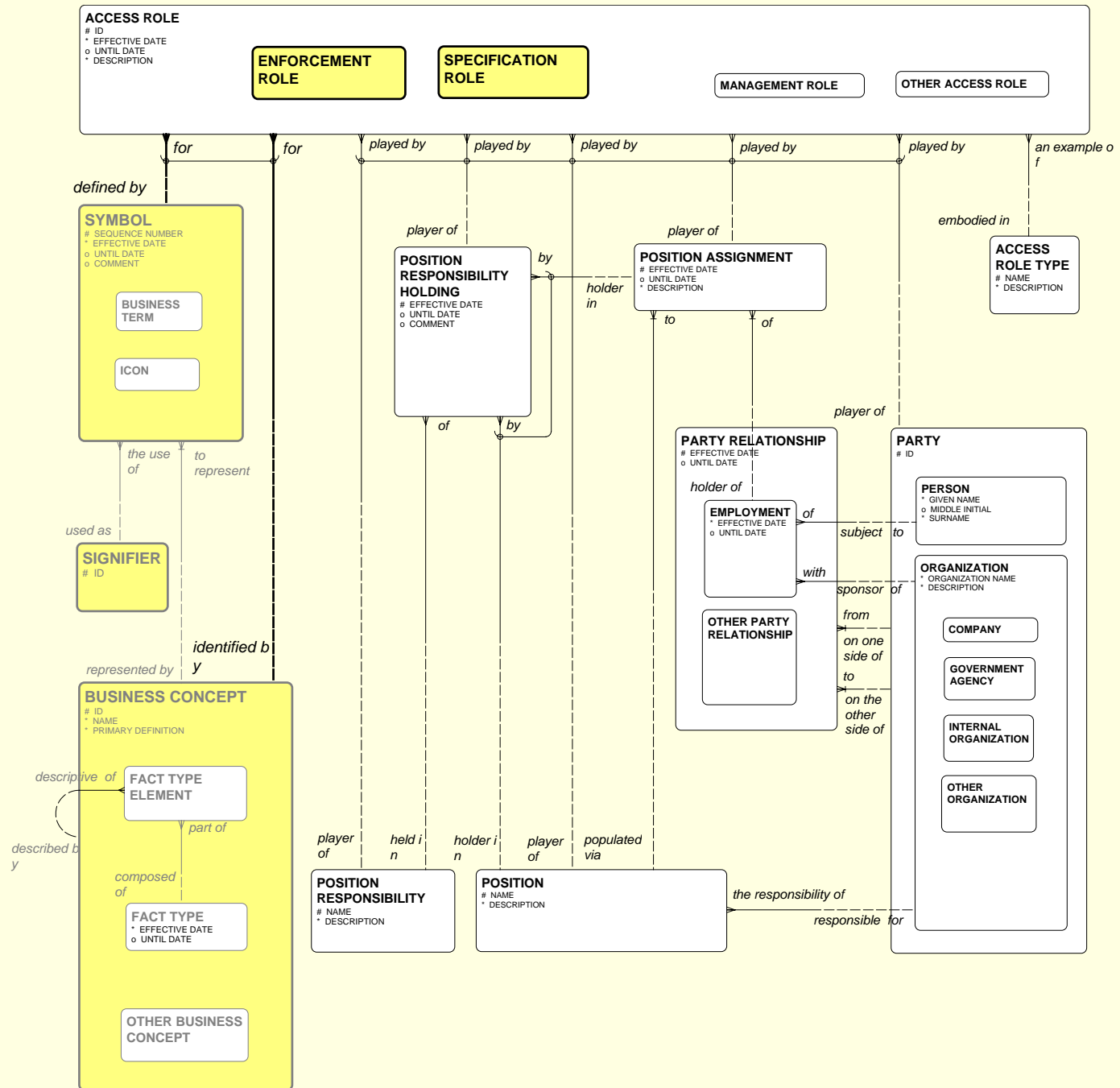


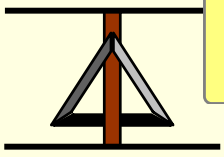
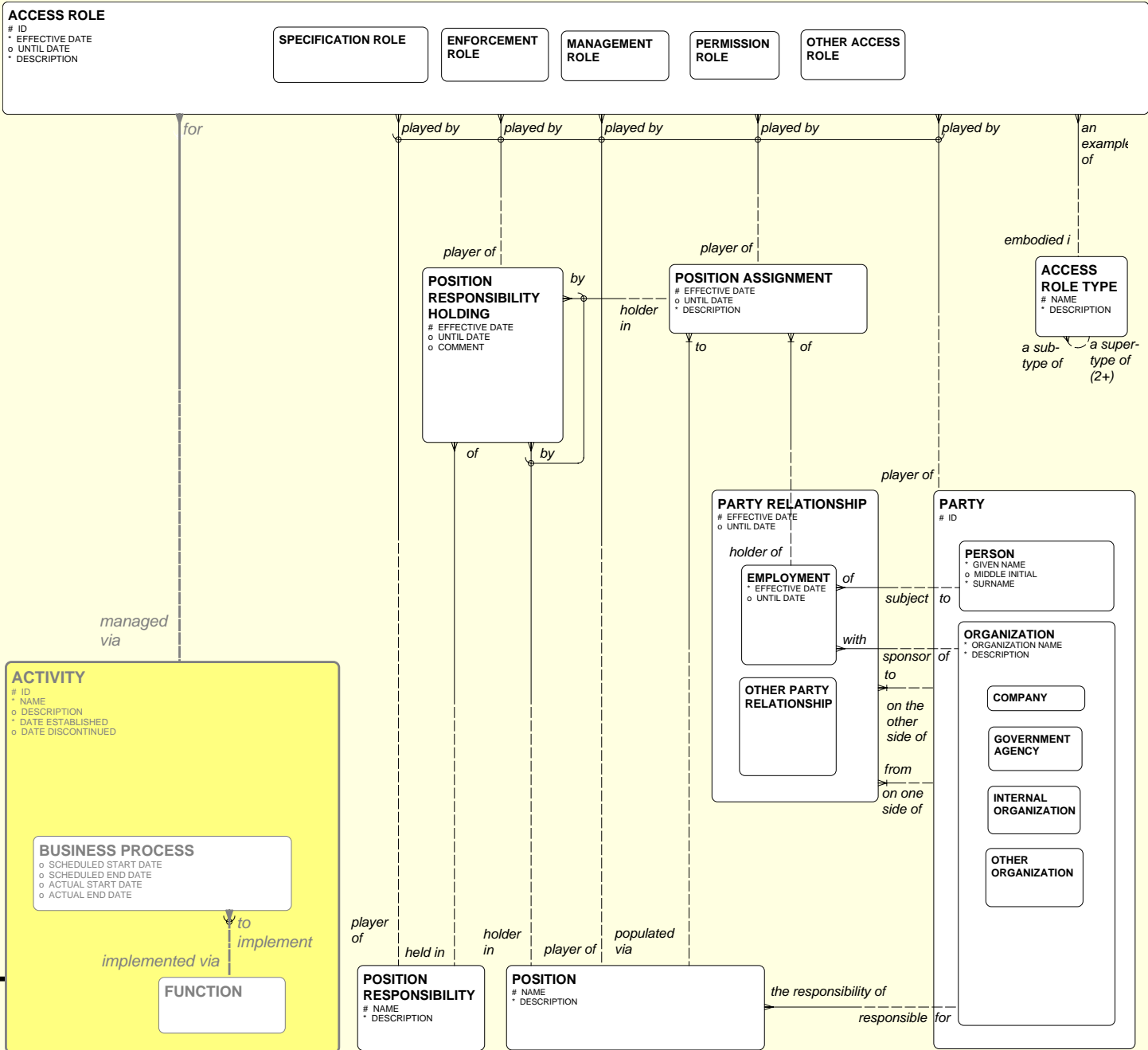


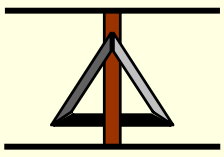
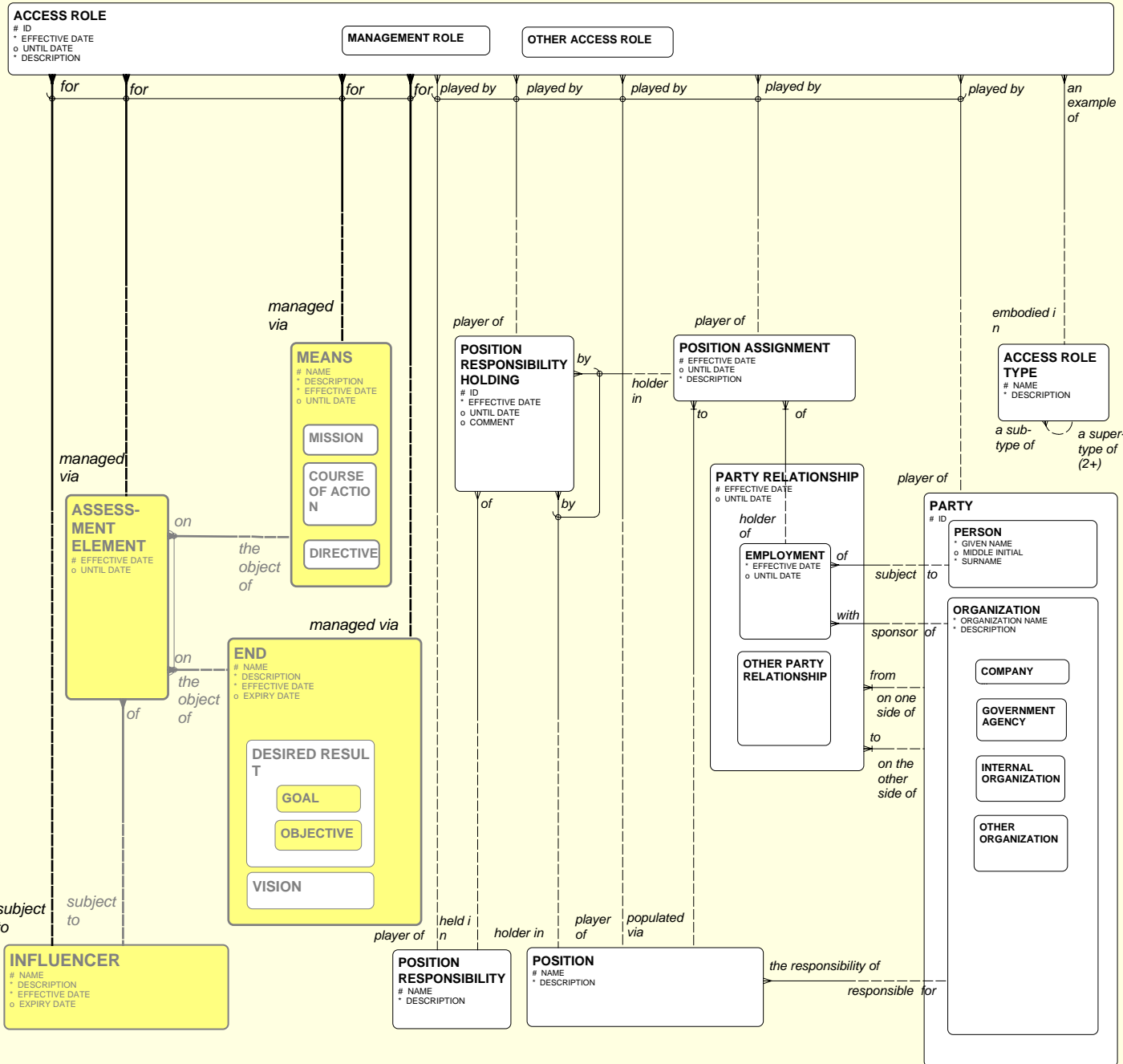


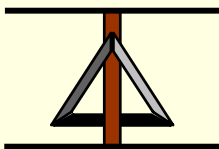
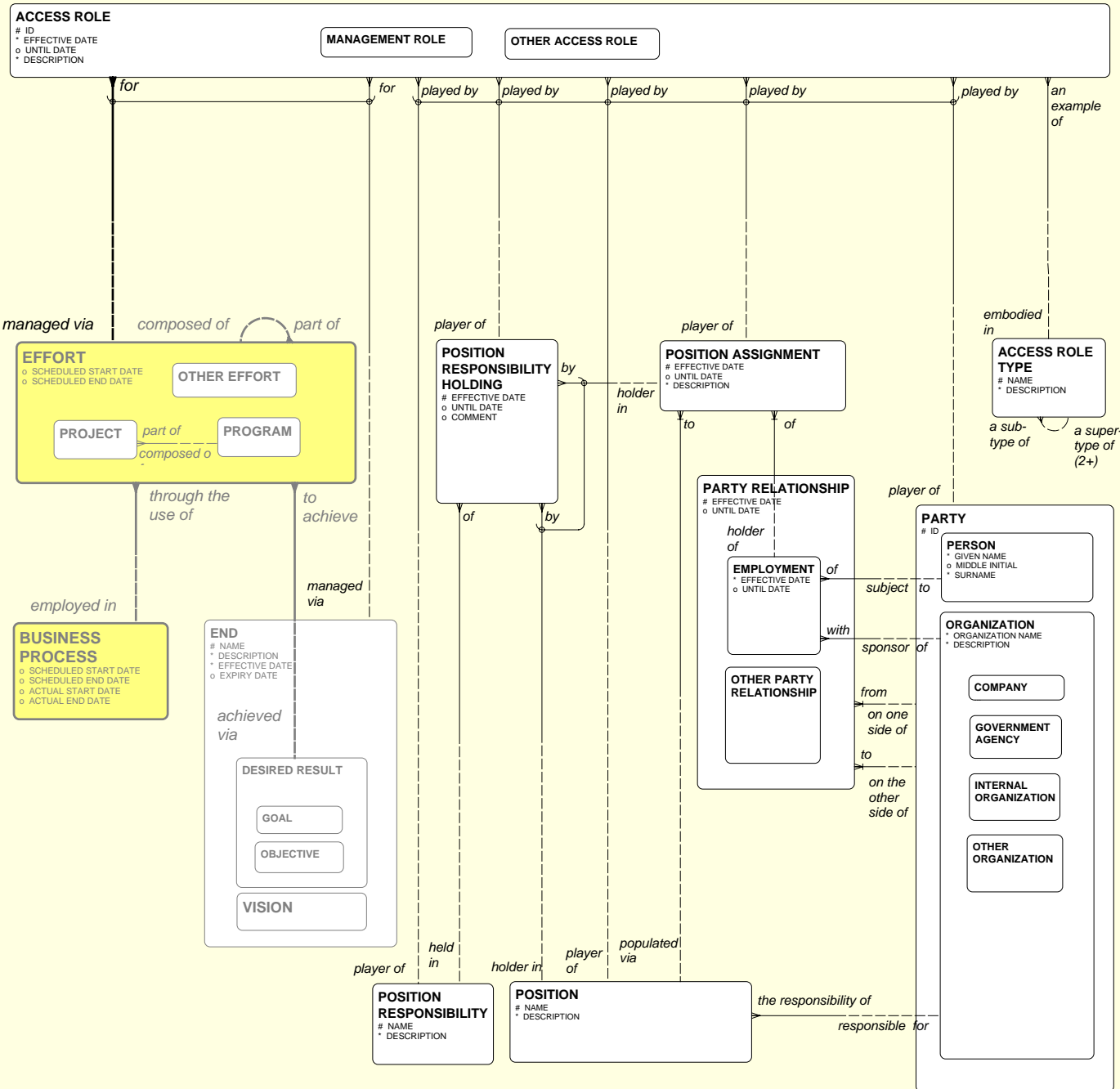
Row Two:
The business owner's View



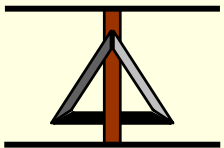


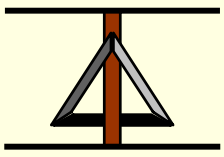
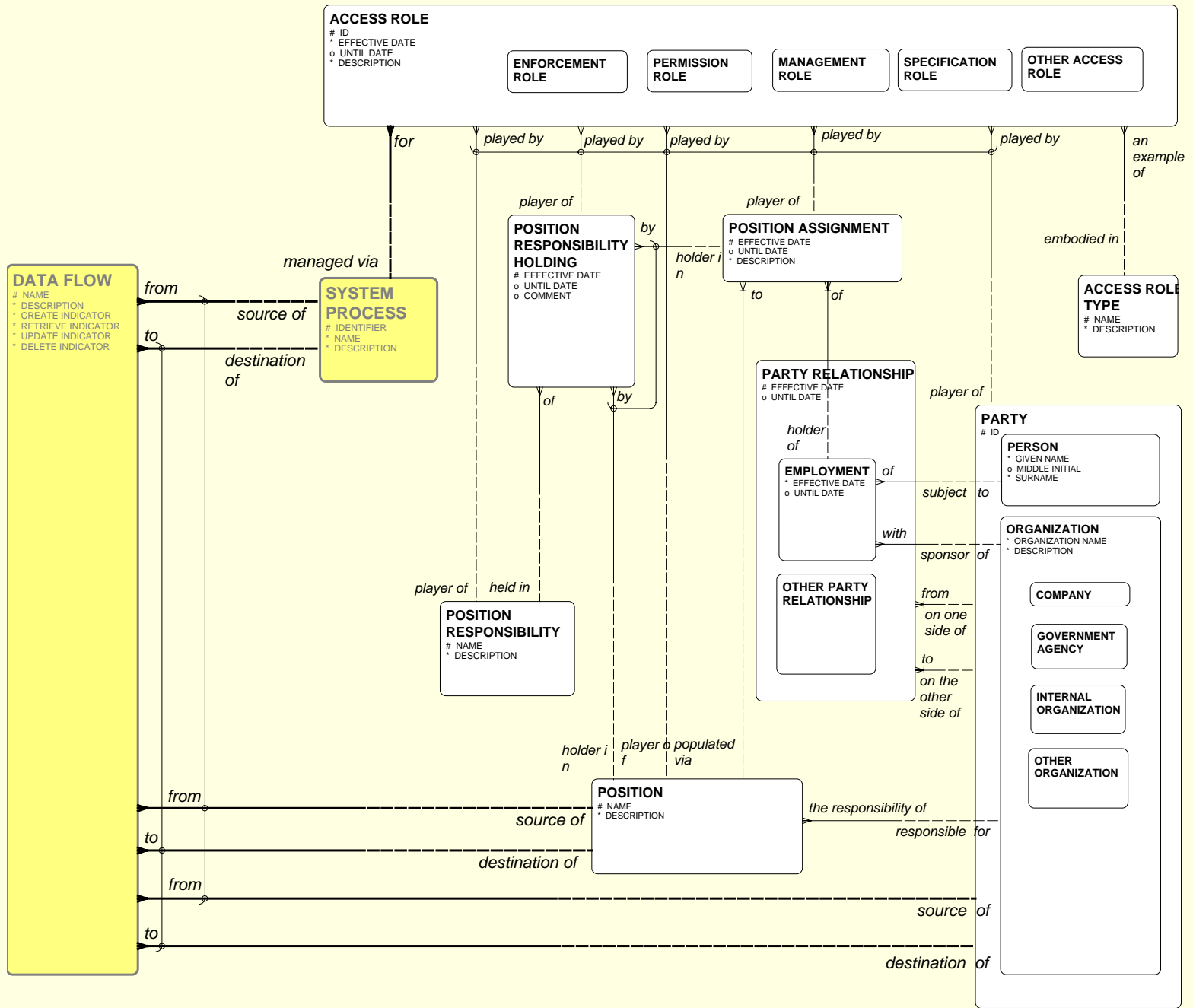


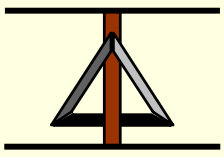
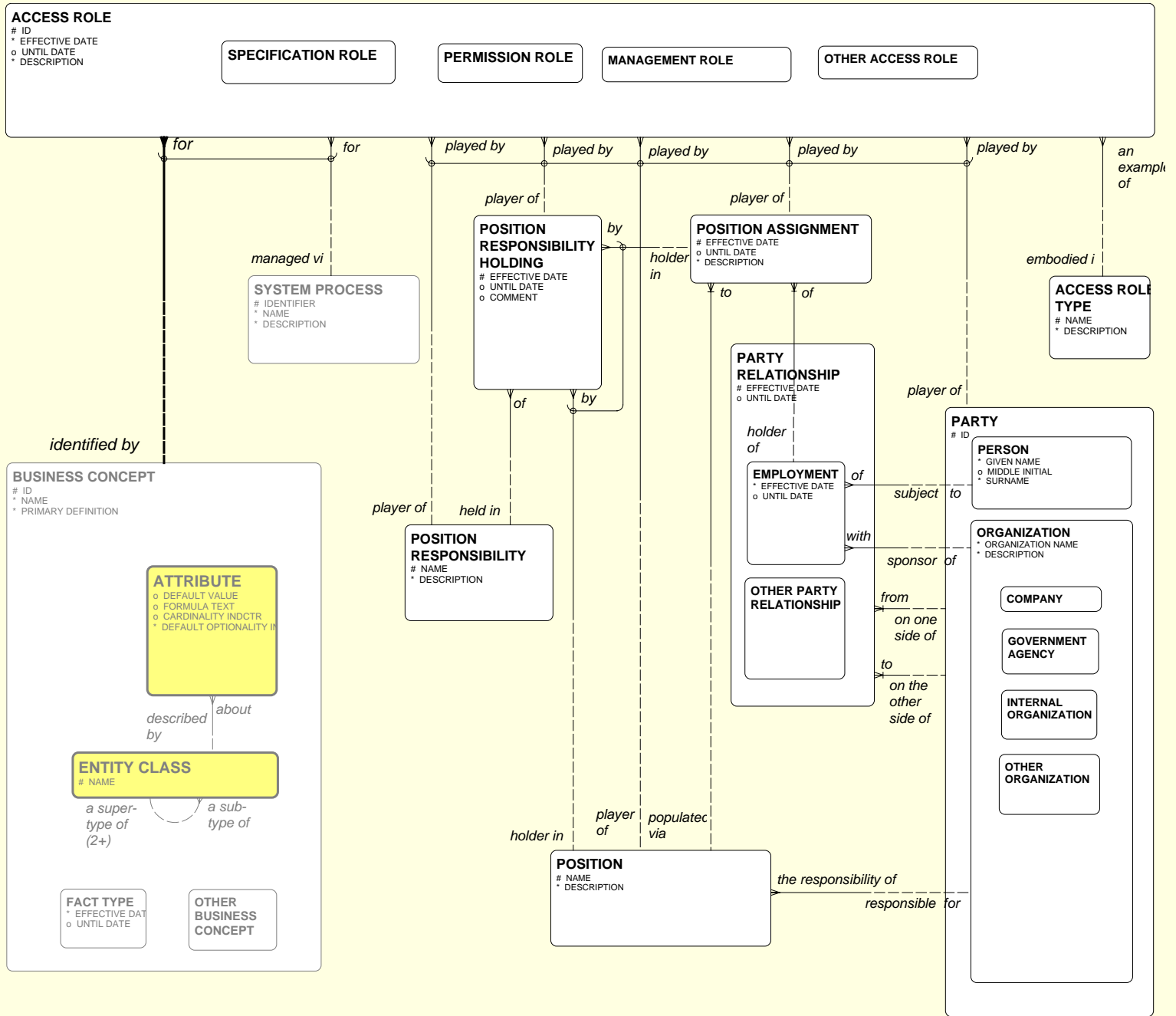


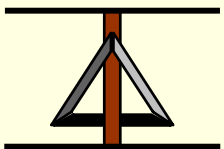
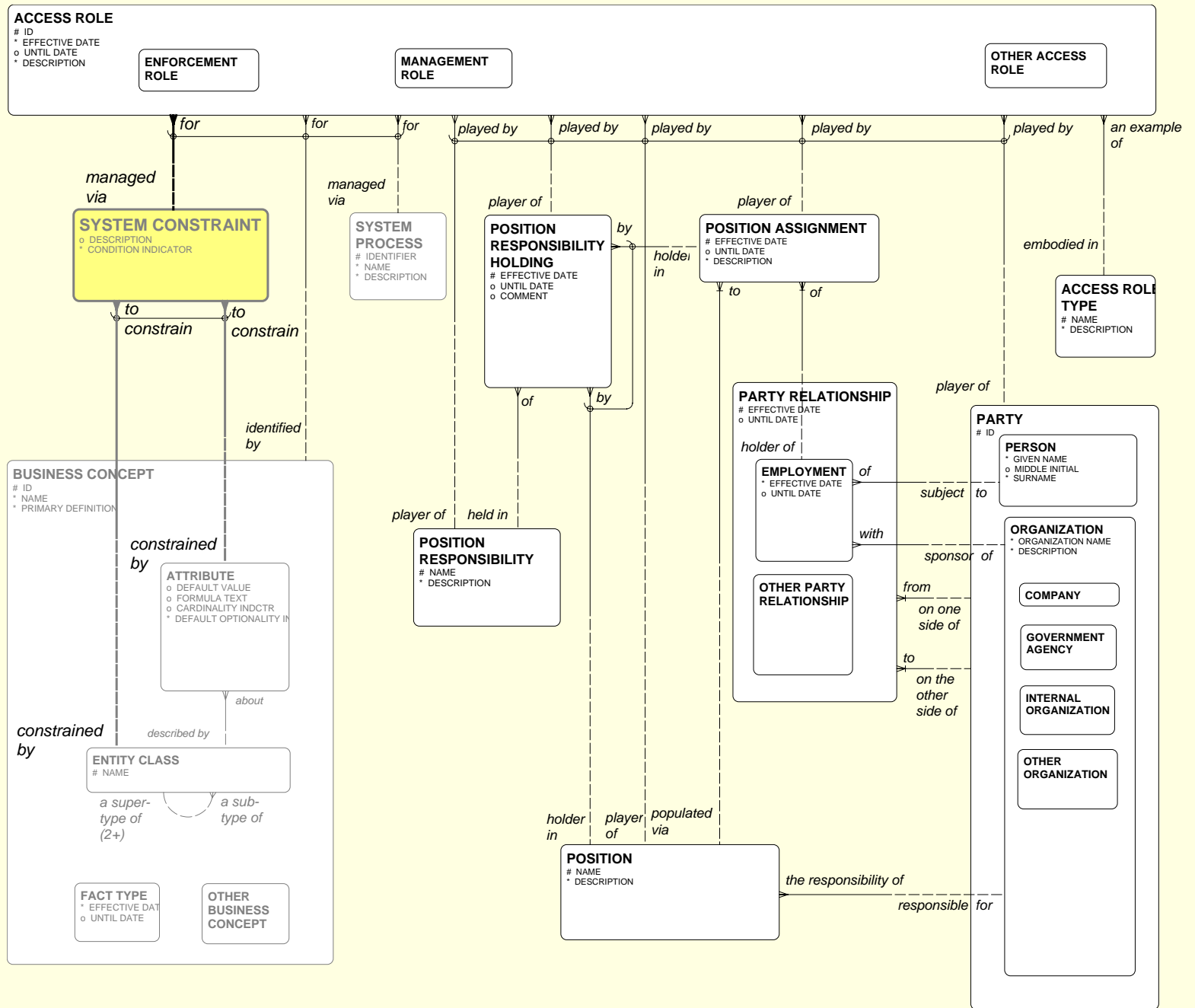


Row three:
The architect's View

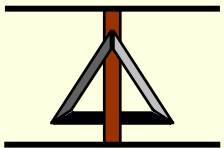


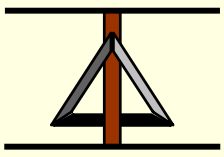
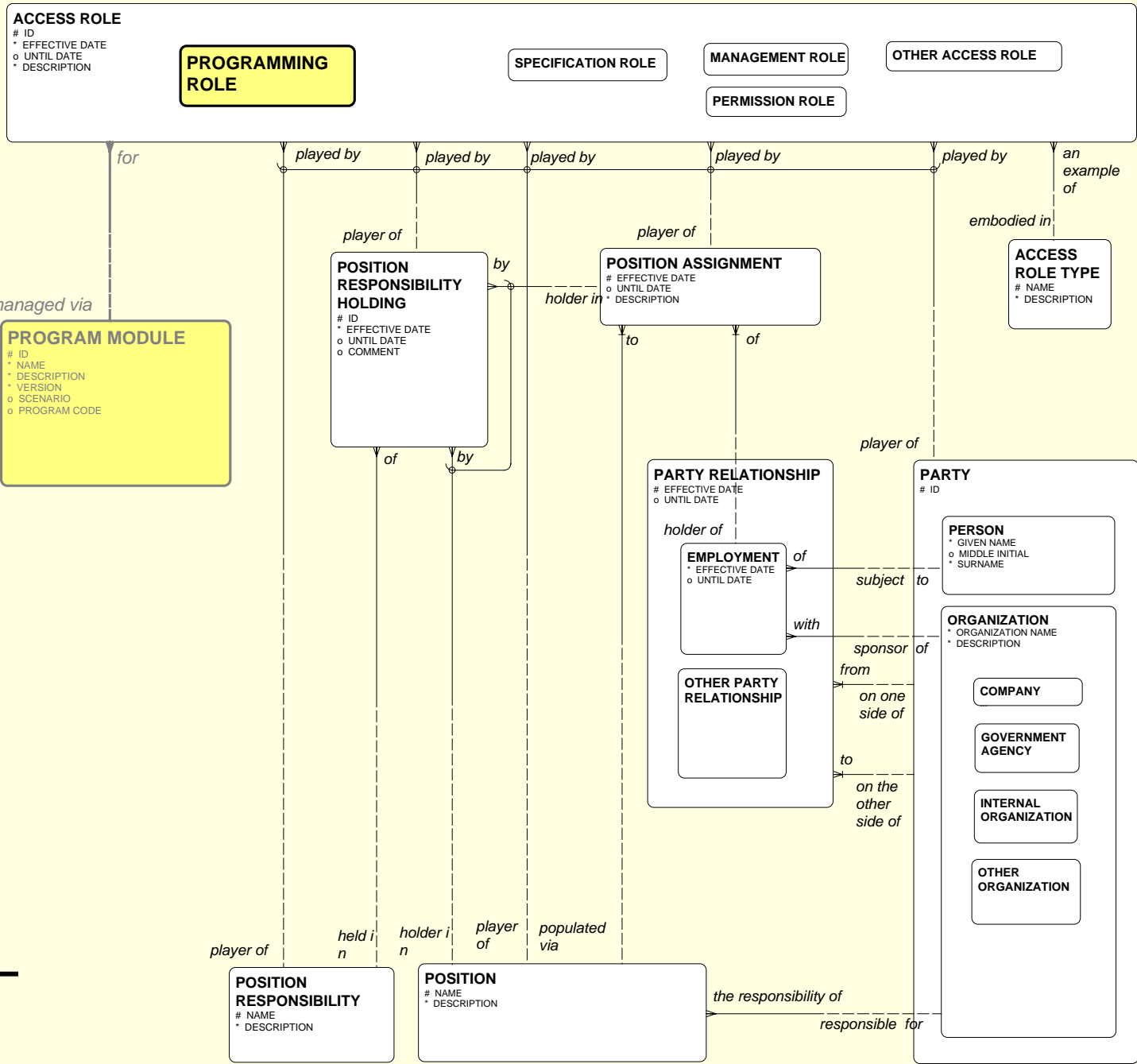


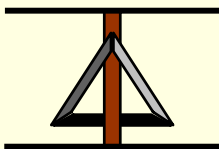
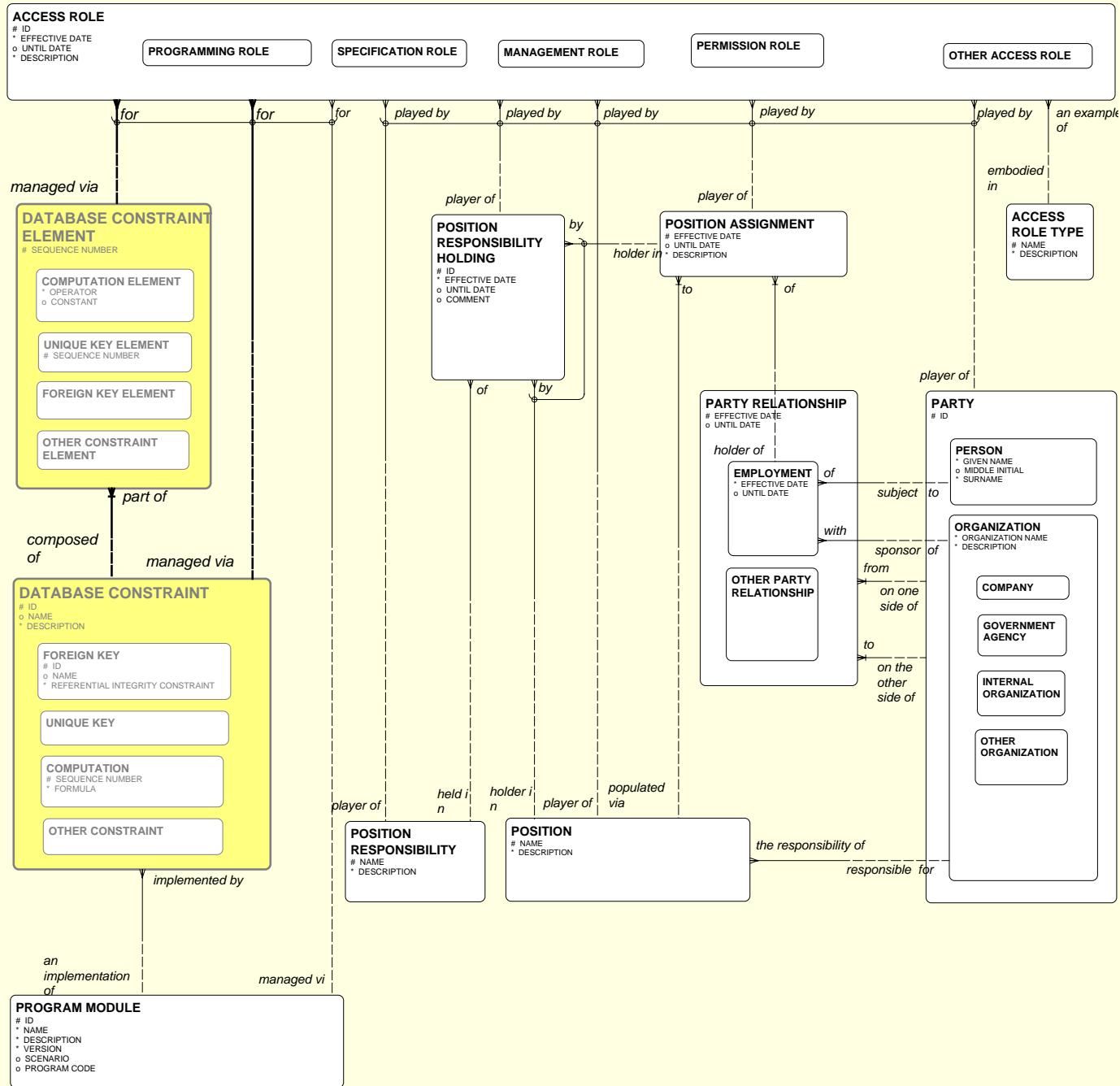


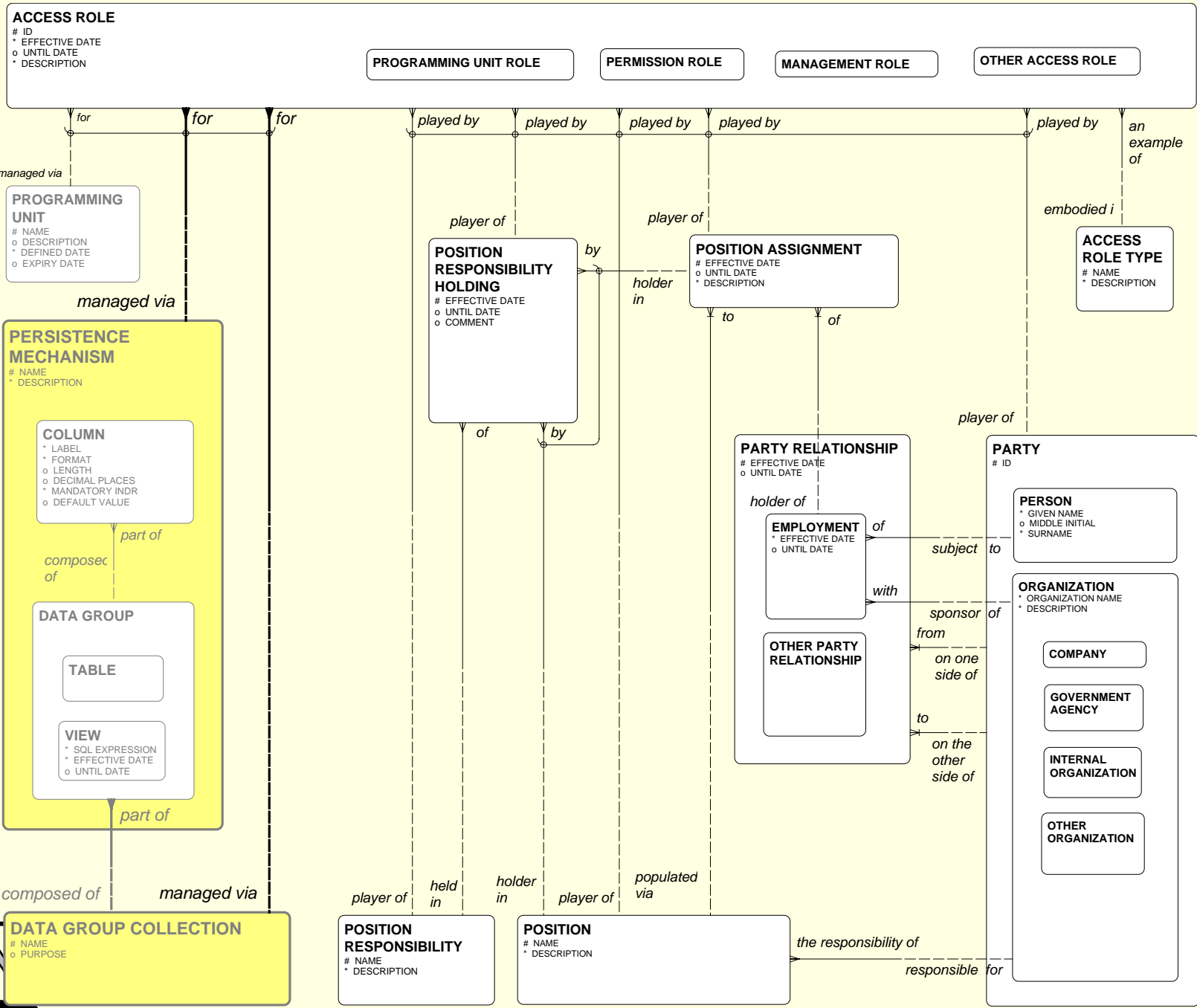


Row four:
The designer's View









PROGRAM MODULE

- # ID
- * NAME
- * DESCRIPTION
- o SCENARIO
- o PROGRAM CODE

a generalization of  inheriting from

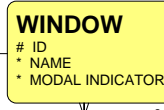
CLASS IMPLEMENTATION

ARCHITECTURAL CLASS

HUMAN INTERFACE CLASS



part of
composed of



part of
composed of

made persistent in

used by

part of

EXECUTABLE MODULE

composed of



composed of



written in


the language of

PROGRAMMING LANGUAGE

- # NAME
- * DESCRIPTION

an example of

embodied in

a sub-type of  a super-type of (2+)

PROGRAM MODULE TYPE

- # NAME
- * DESCRIPTION

PERSISTENCE MECHANISM

- # NAME
- * DESCRIPTION

COLUMN

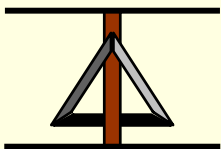
- * LABEL
- * FORMAT
- o LENGTH
- o DECIMAL PLACES
- * MANDATORY INDR
- o DEFAULT VALUE

DATA GROUP

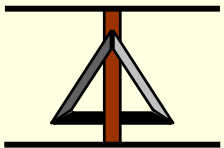
TABLE

VIEW

- * SQL EXPRESSION
- ...



Row six:
The functioning system



... To be continued ...

