Nicola Non-Problem Proposal - Response Nicola "IDEF1X vs IE Notation" p2



Nicola Vitacolonna (University of Udine, Computer Science, Professor) has published a document **IDEF1X-vs-IE-Notation** that deals with purported issues as per the document title. It falsely attributes certain notions to me. This is a response to that set of errors only, it is not a response to anything else. Some discussion (unfortunately drawn out and not resolved, as is typical with academics in the Modern era) of the subject can be found at the database theory forum **"Theoreticians" are Clueless about Relational Data Modelling, Teach Anti-Relational Muddling**, which may unwittingly provide evidence. I would rather not address the larger issue.





3. Partial, Non-Exclusive Specialization

Example:

- a student may be an Erasmus student;
- a student may be a freshman;
- a student may be neither an Erasmus student nor a freshman;
- a student **may be both** an Erasmus student and a freshman.

student nor a freshman; used in this document as a synonym for "partial".

Partial = not every instance of

a child entity. Incomplete is

the parent entity is an instance of

IDEF1X (ISO 31320:2) Notation [Nicola]



IE Notation [Derek]

False Attribution

There is no such thing as *Incomplete ("Partial")* and *Non-Exclusive*. The two concepts, and thus the two notations, are mutually exclusive. The notion *Incomplete ("Partial")* and *Non-Exclusive* is incoherent. Neither IE nor I have such a notation. The misrepresented diagram, in its original form, is in **Subtype**.

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4. Partial, Exclusive Specialization

Example:

- an employee may be a full-time employee;
- an employee may be a consultant;
 an employee may be neither a full-
- an employee may be neither a full-time employee nor a consultant;
- an employee **cannot** be both a full-time and a consultant.

IDEF1X (ISO 31320:2) Notation [Nicola]



(1) \bigcirc FullTimeEmployee_IsExclusive_ck (2) \bigcirc Consultant_IsExclusive_ck

IE Notation [Derek]

False Attribution
There is no such thing as <i>Incomplete ("Partial")</i> and <i>Exclusive</i> . The two concepts, and thus the two notations, are mutually exclusive. The notion <i>Incomplete ("Partial")</i> and <i>Exclusive</i> is incoherent. Neither IE nor I have such a notation. The misrepresented diagram, in its original form, is in Subtype .
icola's comments: IE notation requires an additional entity (additional INSERT): the example cannot be modelled with aree entities. IDEF1X in this case is straightforward, and it can also straightforwardly represent the four-entity model, if ecessary:
Employee is Z Employee FT_or_C Consultant
milarly to IDEF1X in §4, a new symbol might be added to cover this case in IE notation, e.g.:
Standard exclusive subtyping (closed border)
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