## RML - „Refurbished Modeling Language" (Entity Model)



A connector always visualizes the pointing direction outgoing from the foreigen key:

On Primary Entity side we have a ARROW or a DIAMOND!

On Foreign Entity side we have a CIRCLE or a UNDECORATED end (or a DIAMOND, if we have a reverse-addressed principal)
$N$ :M relations requiring a junction! Usually we want this to be expatiated!

But you can use a simplification: If a junction-entity has no attributes, then this notation can be used:
$\mathrm{N}: \mathrm{M}$


1

a filled line-end indicates, that the entity on this end has the multiplicity 1

0/1

a not filled line-end indicates, that the entity on this end has the multiplicity 0/1 (foreign keys need to be „Nullable")

* a undecorated line-end indicates, that the entity on this end has the multiplicity *


NOTE THAT:
Everyone knows about the meaning of this symbol:
BUT: the all-around differences about the exact meaning of the symbol -ruined its interpretability!

WHAT WE DID: We kept the diamond shape to indicate a "Principal"-relation anyway
f the symbol is filled up or not does not make any statement about the role of a relation!
lt just follows the global rule for visualisation of multiplicities.
(and we know that a optional principal is very seldom!)

## The following must not be part of the chart

markers for „weak"-references
markers for integrity automatisms (like „CascadeDelete")

## BACAUSE:

During the modelling phase we want to specify the relationship between entities as exact as possible in order to describe the reallity. This sould be regardless concerning the possibilities and features of any technology! Integrity needs to be consistent each time. This Job must be done anyway! Which technical component or layer carries this responsibility (SQL-Server or BL-Code) does no matter for a model definition!

