Business transaction

Buy 100 5Y bond

Data Model transactions

Buy 100 5Y bond	Withdraw 100 x	'Mature' 100 5Y	Desposit 100 x
	\$100	bond	\$100

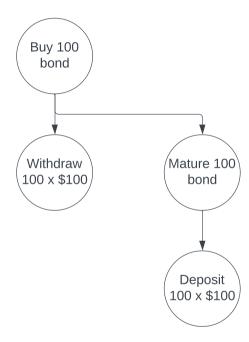
Option 1:

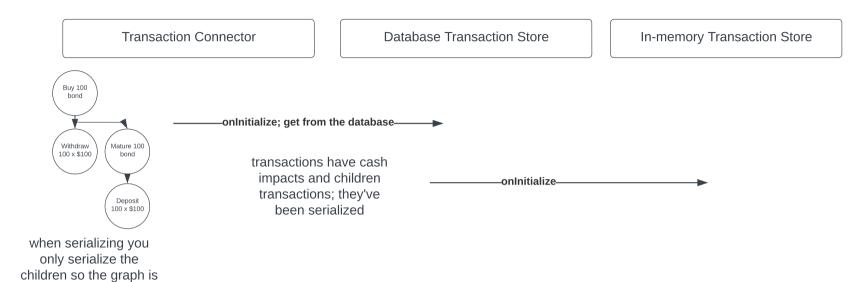
- Every transaction is created equally
- All four are stored to the database with separate transaction IDs
- A 'link' concept defines the hierarchy (it's a tree)
- Top item in the tree is the buy 100 bond
 - Cash impact has one link
 - Others are linked transactions
- In the case of a default, the 'mature' transaction is deleted? It may be replaced by a partial recapture transaction?

Option 2:

• Serialize everything into one object?

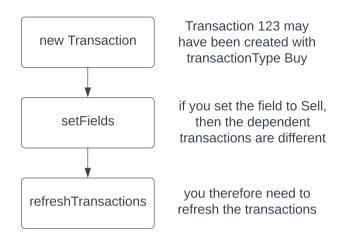
Option 1 makes more sense.





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Upon being deserialized, set Parent transaction is called on each child



Option 1

Everything is immutable. There is no such thing as change. If you make a new version you have to create new objects

Option 2

The caller has to manage this (and therefore understand the dependencies)

Option 3

We manage it for them, and hide it from them