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3.2: PySecurity

Diagram

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I have three different rules that I believe will satisfy this diagram the first one is going through each table relation as it is presented:

One user can have one or many link\_user\_role(s)

One or many link\_user\_role(s) can have one role

One role can have one or many link\_role\_permission(s)

One or many link\_role\_permission(s) can have one permission

The second one is combining the fact that the role table is between both the link\_user\_role and link\_role\_permission tables so the 2nd rule is a combined rule

One user can have one or many link\_user\_role(s)

One role can have one or many link\_user\_role(s) and one or many Link\_role\_permission(s)

One permission can have one or many link\_role\_permission(s)

The third is somewhat ignoring the link tables as these are used to hold both prim keys from other tables e.g. link\_user\_role may have its own ID and underneath that will be the user ID and role ID that associate. So since a user can have one or many roles and a role can have one or many permissions this means that a user can have one or many permissions since the link\_role\_permission and link\_user\_role tables demonstrate this.

One user can have one or many role(s)

A role can have one or many permission(s)

Therefore a user can have one or many permissions

As far as the NoSQL I wrote three different examples. The first one is just the tables as a regular layout with data (embedded style if I recall)

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The second is using the subset pattern (I listed all the tables so I could keep track where I start new and helps me remember the table names etc.)

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The third is the same as the second except for I was not sure if I needed to still include user\_id, role\_id & permission\_id under the link tables where applicable since it is a subset pattern…so I removed them in this one.

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