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CYBR 410

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1.4 – ORD/NoSQL

# ORD UMLet

Below are the same ORD with a slight difference. I was not sure if you wanted an example of each e.g.

1-to-1, 1-to-many (many-to-1), and many-to-many. So, the first one below is each category in order of many-to-many, 1-to-1, and 1-to-many (I added in a 0 as maybe a user has no dependents so more of a 1-to-zero/many).

Diagram

Description automatically generated

But then I thought well is the keyword here USER meaning the table is strictly wanting to pair to a USER not users? Because 1 or many users could have the same birthdate (or can be viewed as a birthdate can have 1 or many users). So, I created that below in the same order except that you have many-to-many, many-to-one and 1-to-many (1-to-zero/many).

Diagram

Description automatically generated

Then I was not sure if you wanted them laid out that way or have one user table going to all three like below (this will match the previous ones but have one user table with three lines)

Diagram

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Diagram

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# NoSQL

I also was not entirely sure here how you wanted the NoSQL so I have various options. First, we will start with the layout of the tables in NoSQL. If I understand correctly seems that words (strings) are in double quotes while numbers (ints) do not require them which is like most coding.

Text, letter

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Then next I tried to follow the book’s example/online research - not sure if the // in USER was needed but was in the reading that way, now from my understanding the use of [ ] is to say this is coming from another table (union in a sense) and this is what I came up with, was also hard trying to remember placements of the commas (,):

Text

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Finally I have this example that is similar to the one above except for roles instead of listing them with the ID, since there are multiple I found that you can also do it as [item1,item2,item3] (was not sure if { } was needed meaning [{item1,item2,item3}] as they did not have them in the examples so I supplied both). This I noticed in reading of the chapter and online research for examples which was from this URL <https://www.mongodb.com/nosql-explained> where they list the hobbies but leave out the ID since its tied to user\_id 1 meaning my ID could be in the user table and when looking at the roles.

Text

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