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Database Development and Use

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Data Models

The assignment prompt doesn’t make it clear to me whether there can be only one user. So, I decided to diagram each of the scenarios twice. The first three diagrams assume that there can be only one user and the second three assume that there can be many users. The prompt says that a user “can have” many dependents but that doesn’t necessarily mean that a user does have many dependents. So, I allowed for both possibilities.

# Object Relational Diagram:

Diagram

Description automatically generated

# NoSQL Data Structures:

Diagram

Description automatically generated

User has many roles:

{

“user”: “Name”,

“roles”: [

{

“Role”

“Role”

“Role”

…

}

],

}

User has one birthday:

{

“user”: “Name”,

“birthday”: “Date”,

}

User can have many dependents:

{

“user”: “Name”,

“dependents” [

{

“Dependent”

“Dependent”

“Dependent”

…

}

],

}