1.

User

|  |  |
| --- | --- |
| UName | PW |

Group

|  |  |
| --- | --- |
| GName | Desc |

Module

|  |  |  |  |
| --- | --- | --- | --- |
| MName | MType | AppVersion | ExtType |

Privilege

|  |  |
| --- | --- |
| MName | PrivName |

UserPrivilege

|  |  |  |
| --- | --- | --- |
| UName | MName | PrivName |

GroupPrivilege

|  |  |  |
| --- | --- | --- |
| GName | MName | PrivName |

UserGroup

|  |  |
| --- | --- |
| UName | GName |

2.

Person

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SSN | FName | LName | Weight | Gender | City | State | Zip | DOB | DocLicense | GuardianSSN |

Pet

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PID | Name | Species | Weight | Gender | City | State | Zip | DOB | DocLicense |

Doctor

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| DocLicense | LName | Address | URL | Phone | DocType | HumanDocType |

PersonCondition

|  |  |
| --- | --- |
| SSN | Condition |

PetCondition

|  |  |
| --- | --- |
| PID | Condition |

Contact

|  |  |  |
| --- | --- | --- |
| SSN | Type | Number |

DoctorSpecialization

|  |  |  |  |
| --- | --- | --- | --- |
| DocLicense | SSN | HumanDocType | Treatment |

3.

User

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Email | Name | Private | Picture | Bio | Password |

Status

|  |  |  |  |
| --- | --- | --- | --- |
| Email | SID | Text | Time |

Follow

|  |  |  |
| --- | --- | --- |
| Email | FollowedByEmail | Approved |

UserActivity

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Email | SID | ActivityByEmail | Likes | CommentText | CommentTime |

AuthenticationKey

|  |  |
| --- | --- |
| Email | AuthKey |

Category

|  |  |
| --- | --- |
| ManagedByEmail | CategoryName |

Feed

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| URL | Version | Icon | LastChecked | FeedType | DataFormat |

Article

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| FeedURL | AID | URL | Posted | Title | EType | EFormat | EURL | ESize | AType | TextContent | PicURL |

Reads

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ReaderEmail | FeedURL | AID | Viewed | Likes | Star |

FeedCategory

|  |  |  |  |
| --- | --- | --- | --- |
| ManagedByEmail | CategoryName | FeedURL | Names |

4.

{A1} 🡪 {A2}

{A3} 🡪 {A2}

{A1, A3} 🡪 {A2}

5.

Because of tuple t1 and t2 following three dependencies do not hold

{A5} -/--> {A4}

{A6} -/--> {A4}

{A5, A6} -/--> {A4}

Because of tuple t1 and t3 following three dependencies do not hold

{A6} -/--> {A5}