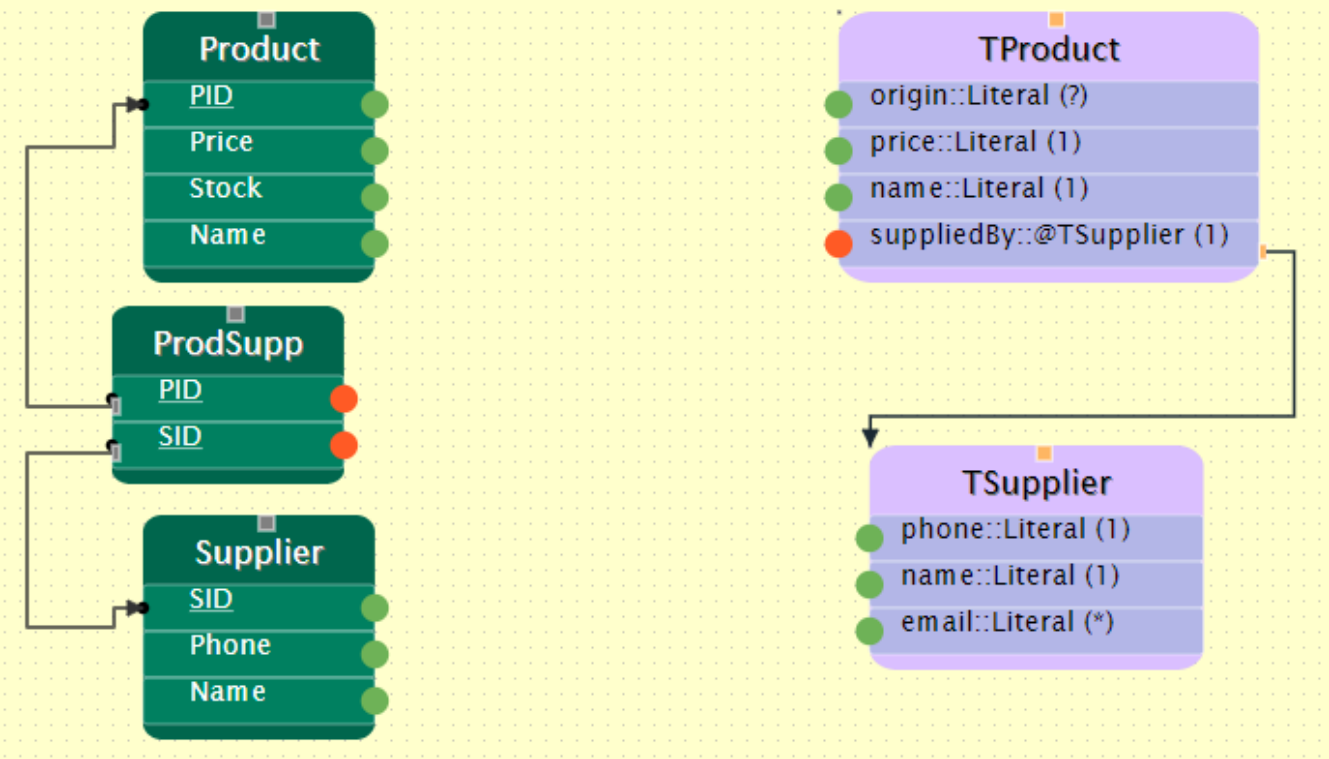
Test Document

Consider three cases of mapping rules and do the following mappings according to each case. For each case load ShERML. Access to the following address :

https://github.com/josemachino/ShERML

The files are in the folder data.

Case 1 (supplier.sql and supplier.json)



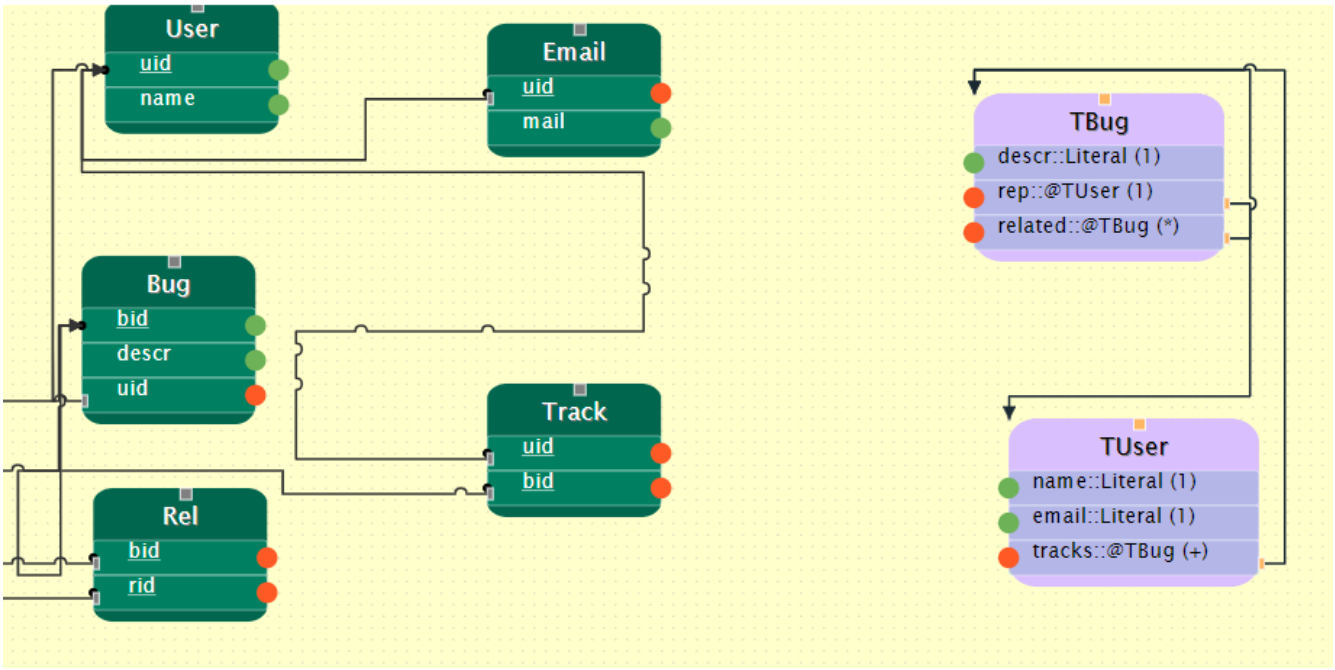
1. Map name and price of Products to properties name and price of Tproduct
2. Map name and phone of Supplier to properties name and phone of Tsupplier
3. Products with its suppliers is in ProdSupp. Map suppliers of a Product to property suppliedBy of Tproduct. Recall that suppliedBy the target shape is TSupplier.

The desired result is the following graph.

RDF Data

```
<https://inria.fr/TSupplier/S2>
      <http://example.com/name>   "Supp_South" ;
      <http://example.com/phone>  "0635519871" .

<https://inria.fr/TProduct/P1>
      <http://example.com/name>   "Carrot" ;
      <http://example.com/price>  "5.30" ;
      <http://example.com/suppliedBy>
            <https://inria.fr/TSupplier/S2> .

<https://inria.fr/TProduct/P2>
      <http://example.com/name>   "Potato" ;
      <http://example.com/price>  "3.90" ;
      <http://example.com/suppliedBy>
            <https://inria.fr/TSupplier/S1> .

<https://inria.fr/TSupplier/S1>
      <http://example.com/name>   "Supp_North" ;
      <http://example.com/phone>  "0612061210" .

<https://inria.fr/TProduct/P3>
      <http://example.com/name>   "Onion" ;
      <http://example.com/price>  "4.50" ;
      <http://example.com/suppliedBy>
            <https://inria.fr/TSupplier/S2> , <https://inria.fr/TSupplier/S1> .
```

Case 2 (bug.sql and Bug.json)



Track table contains the users (uid) that track a bug(bid)

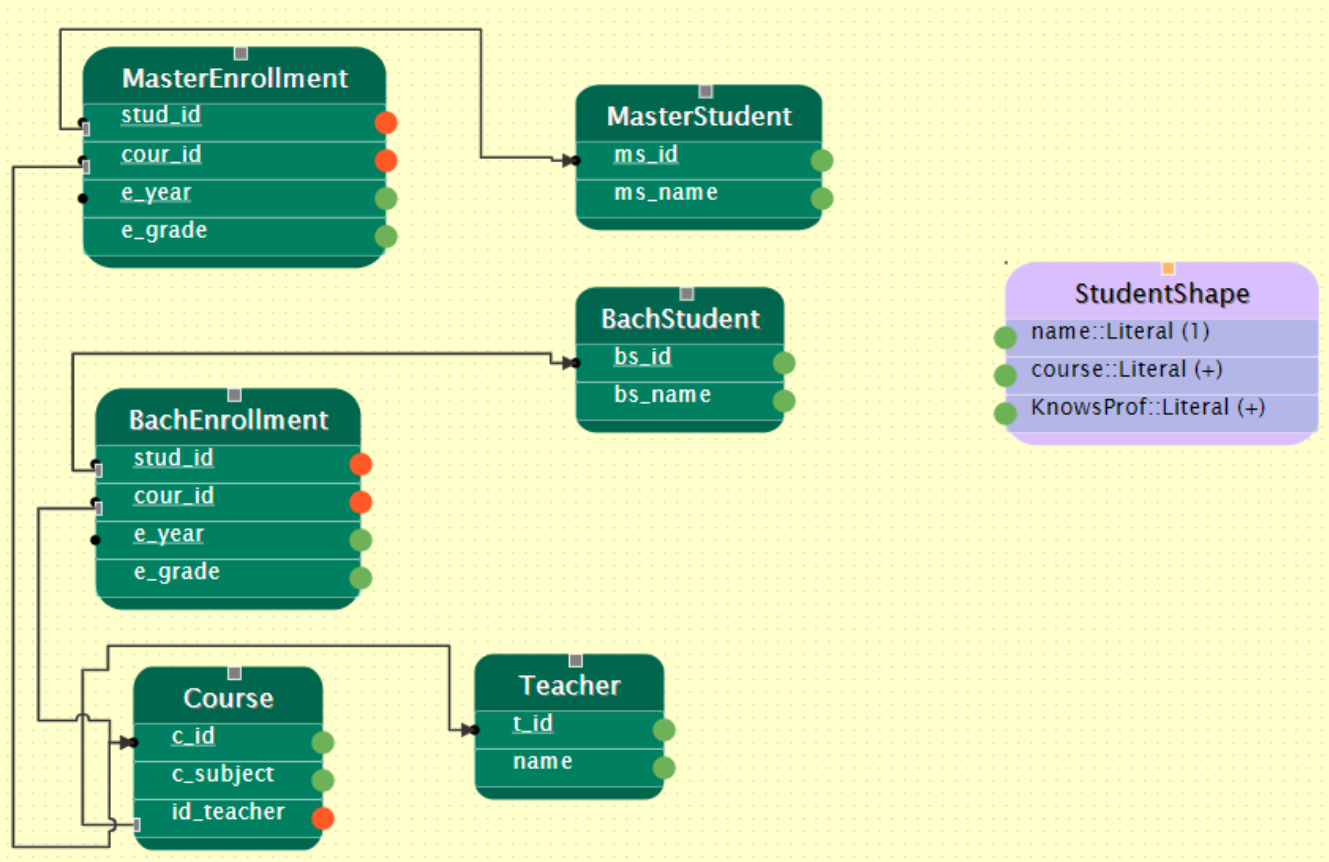
Since User can have or not an email, Email table stores emails in such case.
Bug table stores the user (uid) that reports the bug, bid is the identifier of a bug.
Rel table stores a bug (bid) that is related with another bug (rid)
4. Map description of a Bug to property descr of TBug.
5. Map the user that reported a Bug to property rep of TBug
6. Map a related bug of some Bug to property related of Tbug
7. Map name and email of User to properties name and email of Tuser
8. Map Bugs that are track by a User to property track of Tuser.

The desired result is the following graph.

RDF Data

```
<https://inria.fr/TBug/3>
      <http://example.com/descr>  "Bang!" ;
      <http://example.com/rep>    <https://inria.fr/TUser/2> .

<https://inria.fr/TBug/1>
      <http://example.com/descr>  "Boom!" ;
      <http://example.com/rep>    <https://inria.fr/TUser/1> .

<https://inria.fr/TUser/1>
      <http://example.com/email>   "j@ex.com" ;
      <http://example.com/name>    "Jose" ;
      <http://example.com/tracks>  <https://inria.fr/TBug/2> ,
<https://inria.fr/TBug/1> .

<http://example.com/TUser/@@@>
      <http://example.com/email>   "@@@" ;
      <http://example.com/name>    "@@@" ;
      <http://example.com/tracks>  <http://example.com/TBug/@@@> .

<https://inria.fr/TBug/2>
      <http://example.com/descr>  "Kabang!" ;
      <http://example.com/rep>    <https://inria.fr/TUser/1> .

<https://inria.fr/TUser/2>
      <http://example.com/email>   "@@@" ;
      <http://example.com/name>    "Edith" ;
      <http://example.com/tracks>  <http://example.com/TBug/@@@> .

<http://example.com/TBug/@@@>
      <http://example.com/descr>  "@@@" ;
      <http://example.com/rep>    <http://example.com/TUser/@@@> .
```

Case 3(student.sql and masterstudent.json)



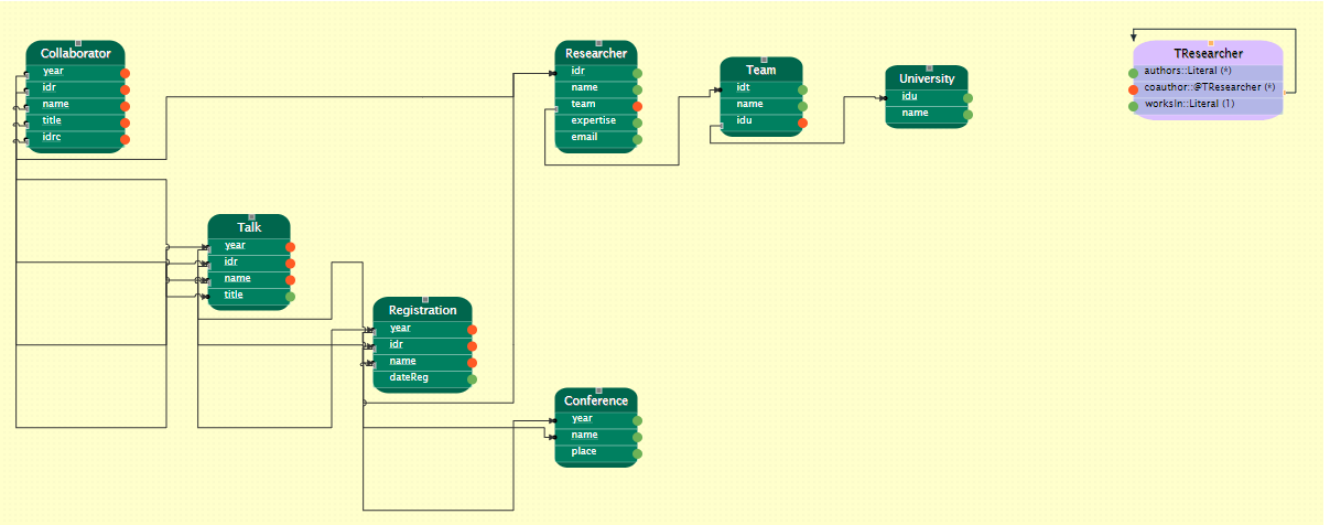
9. Maps name of Masterstudents to property name of TStudent
10. Maps subject of Courses that a master student attend to property course of Tstudent.
11. Maps name of Teachers where a master student knows from attending the course that he gave to property knowsProf of Tstudent

The desired result is the following graph.

RDF Data

```
<https://inria.fr/TStudent/100>
        <http://example.com/course>     "Math" ;
        <http://example.com/knowsProf>  "Pamela" ;
        <http://example.com/name>       "Ana" .

<https://inria.fr/TStudent/101>
        <http://example.com/course>     "Logic" ;
        <http://example.com/knowsProf>  "Edith" ;
        <http://example.com/name>       "Juan" .
```

Case 4 (conference.sql and conference.json)



Collaborator table stores researchers that co-author a work presented in a conference of another researcher. The co-author researcher is identified by idrc.

12. Map the name of the university where a researcher works in to property worksIn of shape Tresearcher
13. Map researchers with its co-authors to property co-author of shape TResearcher
14. Map title of talks of a researcher to property authors of TResearcher

The desired result is the following graph.

RDF Data

```
<https://inria.fr/TResearcher/4>
      <http://example.com/worksIn>  "Rome University" .

<https://inria.fr/TResearcher/3>
      <http://example.com/authors>  "Algebraic" ;
      <http://example.com/coauthor>  <https://inria.fr/TResearcher/2> ;
      <http://example.com/worksIn>  "Lille University" .

<https://inria.fr/TResearcher/2>
      <http://example.com/worksIn>  "Rome University" .

<https://inria.fr/TResearcher/1>
      <http://example.com/authors>  "Tutoring" , "Skolemization" ;
      <http://example.com/coauthor>  <https://inria.fr/TResearcher/4> ;
      <http://example.com/worksIn>  "Lille University" .
```