Student Name: Chenming Cui

Student ID: 47781790

a7data.txt

```
@prefix : <http://www.smu.edu/7320/#>.
@prefix foaf: <http://xmlns.com/foaf/0.1/#>.
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix schema: <http://schema.org> .
@prefix db: <http://dbpedia.org/page/>.
:Zippy a schema:Person.
:Zippy foaf:gender :male.
:Zippy :livesIn :Boston.
:Zippy schema:LikeAction :Boston_Celtics.
:Zippy schema:DrinkAction db:Beer.
:Zippy schema:DrinkAction db:Tequila.
:Rollo a schema:Person.
:Rollo foaf:gender :male.
:Rollo :livesIn :Dallas.
:Rollo schema:LikeAction :Dallas Mavericks.
:Rollo db:hairColor :brown.
:Rollo schema:DrinkAction db:Wine.
:Rollo schema:DrinkAction db:Tequila.
:Rollo foaf:knows :Marla .
:Rollo foaf:knows :Zippy .
:Rollo foaf:knows :Zonker .
:Rollo schema:workLocation _:Ic.
:Rollo schema:jobTitle :Manager.
_:Ic a schema:InternetCafe.
_:Ic schema:location "Skillman Avenue".
:Marla a schema:Person.
:Marla foaf:gender :female.
:Marla :livesIn :Dallas.
:Marla db:hairColor :red.
:Marla schema:DrinkAction db:Coffee .
```

```
:Marla schema:workLocation _:ctu.
:Marla schema:jobTitle :Stylist.
_:ctu a schema:HairSalon.
_:ctu foaf:name "Cut Me Up".
_:ctu schema:location :Dallas.
:Ralph a schema:Person.
:Ralph foaf:gender :male.
:Ralph db:Sister :Marla .
:Ralph schema:workLocation _:bb.
:Ralph schema:jobTitle :Shoe_Sizer.
_:bb a schema:BowlingAlley.
_:bb foaf:name "Big Bowl".
:BigZ a schema:Person .
:BigZ schema:DrinkAction db:Tea.
:BigZ schema:DrinkAction db:Teguila.
:Zonker a schema:Person.
:Zonker foaf:gender :male.
:Zonker foaf:knows :Rollo .
:Zonker db:Sister :Marla.
:Zonker :creates _:HHCYJ.
_:HHCYJ a schema:game.
_:HHCYJ foaf:name "How High Can You Jump".
:Zonker schema:workLocation _:bg.
:Zonker schema:jobTitle :Dealer.
_:ba a schema:Casino.
_:bg foaf:name "Big Teepee".
_:bg schema:location :Dallas.
```

a7onto.txt

```
@prefix : <http://www.codesupreme.com/#>.
@prefix foaf: <http://xmlns.com/foaf/0.1/#>.
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix schema: <http://schema.org> .
@prefix db: <http://dbpedia.org/page/>.
@prefix owl: <http://www.w3.org/2002/07/owl#>.

foaf:knows rdf:type owl:SymmetricProperty.
schema:workLocation owl:inverseOf db:Recruitment.
```

```
db:Sister rdfs:subPropertyOf db:Sibling.
db:Sister owl:inverseOf db:Brother.
db:Brother rdf:type owl:TransitiveProperty.
db:Sibling rdf:type owl:SymmetricProperty.
db:Wine rdfs:subClassOf db:Alcoholic_drink.
db:Beer rdfs:subClassOf db:Alcoholic_drink.
db:Tequila rdfs:subClassOf db:Alcoholic_drink.
foaf:knows rdfs:domain foaf:Person.
foaf:knows rdfs:range foaf:Person.
foaf:gender rdfs:domain foaf:Person.
:Zonker owl:sameAs :BigZ.
:BigZ owl:sameAs :Zonker.
schema:City rdfs:subClassOf schema:Place.
schema:Place rdfs:subClassOf schema:Thing.
schema:Person rdfs:subClassOf schema:Thing.
schema:jobTitle rdfs:subClassOf schema:Property.
schema:Property rdfs:subClassOf schema:Thing.
schema:InternetCafe rdfs:subClassOf schema:LocalBusiness.
schema:LocalBusiness rdfs:subClassOf schema:Place.
schema:workLocation rdfs:subClassOf schema:location.
schema:location rdfs:subClassOf schema:Property.
schema:HairSalon rdfs:subClassOf schema:HealthAndBeautyBusiness.
schema:HealthAndBeautyBusiness rdfs:subClassOf schema:LocalBusiness.
schema:BowlingAlley rdfs:subClassOf schema:SportsActivityLocation.
schema:SportsActivityLocation rdfs:subClassOf schema:LocalBusiness.
schema:Casino rdfs:subClassOf schema:EntertainmentBusiness.
schema:EntertainmentBusiness rdfs:subClassOf schema:LocalBusiness.
schema:DrinkAction rdfs:subClassOf schema:ConsumeAction.
schema:ConsumeAction rdfs:subClassOf schema:Action.
schema:Action rdfs:subClassOf schema:Thing.
schema:CreateAction rdfs:subClassOf schema:Action.
```

```
schema:game rdfs:subClassOf schema:Property.

schema:SportsTeam rdfs:subClassOf schema:SportsOrganization.
schema:SportsOrganization rdfs:subClassOf schema:Organization.
schema:Organization rdfs:subClassOf schema:Thing.

:creates rdfs:subClassOf schema:CreateAction.

:Dallas rdfs:subClassOf schema:City.
:Boston rdfs:subClassOf schema:City.
:Boston_Celtics rdfs:subClassOf schema:SportsTeam.
:Dallas_Mavericks rdfs:subClassOf schema:SportsTeam.
```

a7rules.txt

```
@prefix : <http://www.codesupreme.com/#>.
@prefix foaf: <http://xmlns.com/foaf/0.1/#>.
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix schema: <http://schema.org> .
@prefix db: <http://dbpedia.org/page/>.
@prefix owl: <http://www.w3.org/2002/07/owl#>.
[rule1: (?x rdf:type :Person) -> (?x rdf:type :Human)]
[rule2: (?x :livesIn :Dallas) -> (?x :love :Texas)]
[rule3: (?x schema:DrinkAction db:Wine) -> (?x rdf:type db:Expert)]
```

a7sparql1.txt

```
prefix : <http://www.smu.edu/7320/#>
prefix foaf: <http://xmlns.com/foaf/0.1/#>
prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#>
prefix schema: <http://schema.org>
prefix db: <http://dbpedia.org/page/>
prefix xsd: <http://www.w3.org/2001/XMLSchema#>
prefix owl: <http://www.w3.org/2002/07/owl#>

SELECT ?x
WHERE {
    :Marla db:Sibling ?x.
}
```

a7sparql2.txt

```
prefix : <http://www.smu.edu/7320/#>
prefix foaf: <http://xmlns.com/foaf/0.1/#>
prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#>
prefix schema: <http://schema.org>
prefix db: <http://dbpedia.org/page/>
prefix xsd: <http://www.w3.org/2001/XMLSchema#>

SELECT ?x
WHERE {
    ?x db:Sister :Marla.
    ?x schema:workLocation [a schema:Casino].
}
```

a7sparql3.txt

```
prefix : <http://www.smu.edu/7320/#>
prefix foaf: <http://xmlns.com/foaf/0.1/#>
prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#>
prefix schema: <http://schema.org>
prefix db: <http://dbpedia.org/page/>
prefix xsd: <http://www.w3.org/2001/XMLSchema#>

SELECT ?x
WHERE {
    ?x rdf:type db:Expert.
}
```