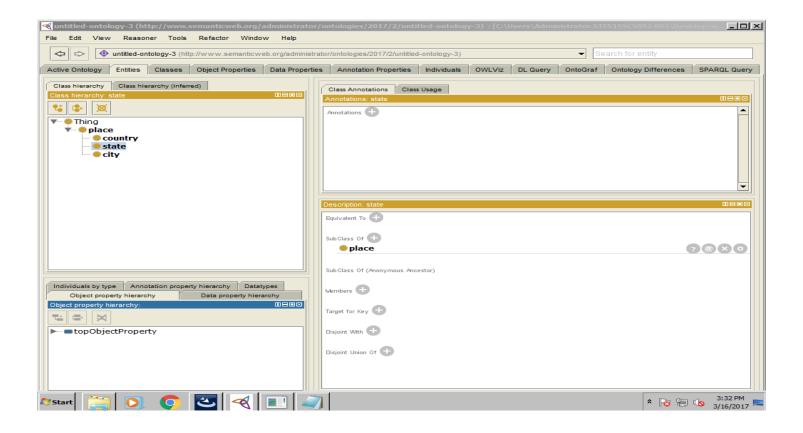
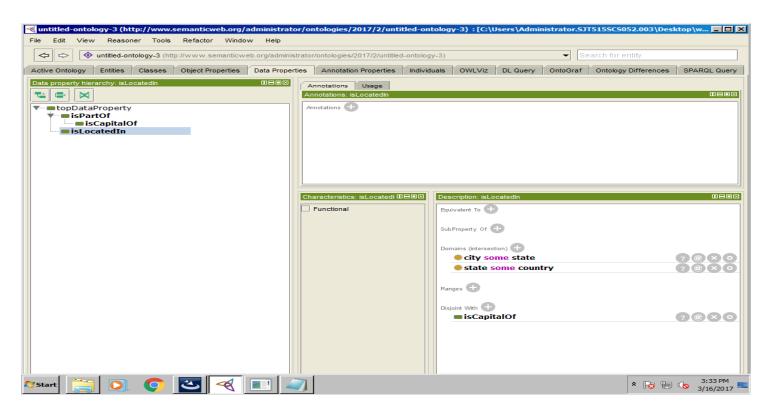
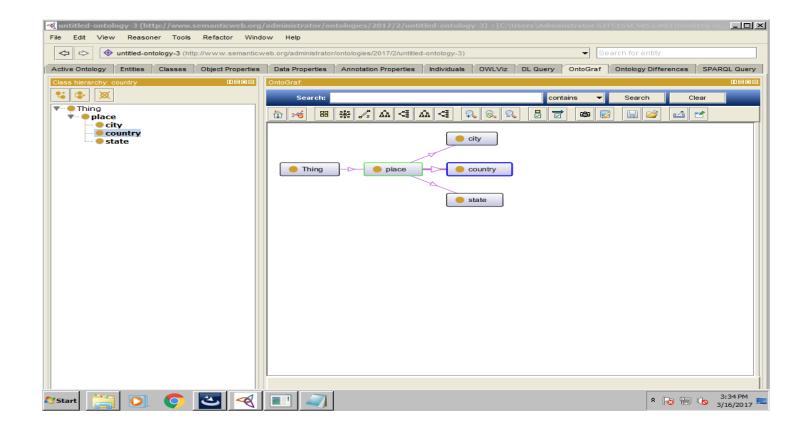
Exercise 5: Creating OWL Ontology using Protege editor

16MCS0051







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<Prefix name="rdf" IRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#"/>
<Prefix name="rdfs" IRI="http://www.w3.org/2000/01/rdf-schema#"/>
<Prefix name="xsd" IRI="http://www.w3.org/2001/XMLSchema#"/>
<Prefix name="owl" IRI="http://www.w3.org/2002/07/owl#"/>
<Declaration>
  <Class IRI="#city"/>
</Declaration>
<Declaration>
  <Class IRI="#country"/>
</Declaration>
<Declaration>
  <Class IRI="#place"/>
</Declaration>
<Declaration>
  <Class IRI="#state"/>
</Declaration>
<Declaration>
  <ObjectProperty IRI="#city"/>
</Declaration>
<Declaration>
  <ObjectProperty IRI="#country"/>
</Declaration>
<Declaration>
  <ObjectProperty IRI="#state"/>
</Declaration>
<Declaration>
  <DataProperty IRI="#isCapitalOf"/>
</Declaration>
```

```
<Declaration>
  <DataProperty IRI="#isLocatedIn"/>
</Declaration>
<Declaration>
  <DataProperty IRI="#isPartOf"/>
</Declaration>
<SubClassOf>
  <Class IRI="#city"/>
  <Class IRI="#place"/>
</SubClassOf>
<SubClassOf>
  <Class IRI="#country"/>
  <Class IRI="#place"/>
</SubClassOf>
<SubClassOf>
  <Class IRI="#state"/>
  <Class IRI="#place"/>
</SubClassOf>
<SubDataPropertyOf>
  <DataProperty IRI="#isCapitalOf"/>
  <DataProperty IRI="#isPartOf"/>
</SubDataPropertyOf>
<FunctionalDataProperty>
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</FunctionalDataProperty>
<DataPropertyDomain>
  <DataProperty IRI="#isCapitalOf"/>
  <ObjectSomeValuesFrom>
```

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<ObjectProperty IRI="#city"/>
    <Class IRI="#state"/>
 </ObjectSomeValuesFrom>
</DataPropertyDomain>
<DataPropertyDomain>
 <DataProperty IRI="#isLocatedIn"/>
 <ObjectSomeValuesFrom>
    <ObjectProperty IRI="#city"/>
    <Class IRI="#state"/>
 </ObjectSomeValuesFrom>
</DataPropertyDomain>
<DataPropertyDomain>
 <DataProperty IRI="#isLocatedIn"/>
 <ObjectSomeValuesFrom>
    <ObjectProperty IRI="#state"/>
    <Class IRI="#country"/>
 </ObjectSomeValuesFrom>
</DataPropertyDomain>
<DataPropertyDomain>
 <DataProperty IRI="#isPartOf"/>
 <ObjectSomeValuesFrom>
    <ObjectProperty IRI="#city"/>
    <Class IRI="#state"/>
 </ObjectSomeValuesFrom>
</DataPropertyDomain>
<DataPropertyDomain>
 <DataProperty IRI="#isPartOf"/>
 <ObjectSomeValuesFrom>
```