

```

<?xml version="1.0"?>
<!DOCTYPE rdf:RDF [
  <!ENTITY vin "http://www.w3.org/TR/2003/PR-owl-guide-20031209/wine#" >
  <!ENTITY food "http://www.w3.org/TR/2003/PR-owl-guide-20031209/food#" >
  <!ENTITY owl "http://www.w3.org/2002/07/owl#" >
  <!ENTITY xsd "http://www.w3.org/2001/XMLSchema#" >
]>

```

<rdf:RDF

```

xmlns = "http://www.w3.org/TR/2003/PR-owl-guide-20031209/wine#"
xmlns:vin = "http://www.w3.org/TR/2003/PR-owl-guide-20031209/wine#"
xml:base = "http://www.w3.org/TR/2003/PR-owl-guide-20031209/wine#"
xmlns:food= "http://www.w3.org/TR/2003/PR-owl-guide-20031209/food#"
xmlns:owl = "http://www.w3.org/2002/07/owl#"
xmlns:rdf = "http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns:rdfs= "http://www.w3.org/2000/01/rdf-schema#"
xmlns:xsd = "http://www.w3.org/2001/XMLSchema#">

```

<owl:Ontology rdf:about="">

```

<rdfs:comment>An example OWL ontology</rdfs:comment>
<owl:priorVersion>
  <owl:Ontology rdf:about="http://www.w3.org/TR/2003/CR-owl-guide-20030818/wine"/>
</owl:priorVersion>
<owl:imports rdf:resource="http://www.w3.org/TR/2003/PR-owl-guide-20031209/food"/>
<rdfs:comment>Derived from the DAML Wine ontology at
  http://ontolingua.stanford.edu/doc/chimaera/ontologies/wines.daml
  Substantially changed, in particular the Region based relations.
</rdfs:comment>
<rdfs:label>Wine Ontology</rdfs:label>

```

</owl:Ontology>

<owl:Class rdf:ID="Wine">

```

<rdfs:subClassOf rdf:resource="&food;PotableLiquid" />
<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#hasMaker" />
    <owl:cardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:cardinality>
  </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#hasMaker" />
    <owl:allValuesFrom rdf:resource="#Winery" />
  </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#madeFromGrape" />
    <owl:minCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:minCardinality>
  </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>

```

```

<owl:Restriction>
  <owl:onProperty rdf:resource="#hasSugar" />
  <owl:cardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:cardinality>
</owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#hasFlavor" />
    <owl:cardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:cardinality>
  </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#hasBody" />
    <owl:cardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:cardinality>
  </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#hasColor" />
    <owl:cardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:cardinality>
  </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#locatedIn"/>
    <owl:someValuesFrom rdf:resource="&vin;Region"/>
  </owl:Restriction>
</rdfs:subClassOf>
<rdfs:label xml:lang="en">wine</rdfs:label>
<rdfs:label xml:lang="fr">vin</rdfs:label>
</owl:Class>

```

```

<owl:Class rdf:ID="WhiteWine">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#White" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

```

```

<owl:Class rdf:ID="WhiteBurgundy">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Burgundy" />
    <owl:Class rdf:about="#WhiteWine" />
  </owl:intersectionOf>
</owl:Class>

```

```
<owl:Class rdf:ID="WineDescriptor">
  <rdfs:comment>Made WineDescriptor unionType of tastes and color</rdfs:comment>
  <owl:unionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#WineTaste" />
    <owl:Class rdf:about="#WineColor" />
  </owl:unionOf>
</owl:Class>
```

```
<owl:Class rdf:ID="WineTaste">
  <rdfs:subClassOf rdf:resource="#WineDescriptor" />
</owl:Class>
```

```
<owl:Class rdf:ID="WineColor">
  <rdfs:subClassOf rdf:resource="#WineDescriptor" />
  <owl:oneOf rdf:parseType="Collection">
    <owl:Thing rdf:about="#White" />
    <owl:Thing rdf:about="#Rose" />
    <owl:Thing rdf:about="#Red" />
  </owl:oneOf>
</owl:Class>
```

```
<WineGrape rdf:ID="CabernetSauvignonGrape" />
```

```
<WineColor rdf:ID="White" />
```

```
<owl:Class rdf:ID="WineGrape">
  <rdfs:subClassOf rdf:resource="&food;Grape" />
</owl:Class>
```

Zkuste si sami přečíst

```
<owl:Class rdf:ID="WineSugar">
  <rdfs:subClassOf rdf:resource="#WineTaste" />
  <owl:oneOf rdf:parseType="Collection">
    <owl:Thing rdf:about="#Sweet" />
    <owl:Thing rdf:about="#OffDry" />
    <owl:Thing rdf:about="#Dry" />
  </owl:oneOf>
</owl:Class>
```

```
<Sauvignon rdf:ID="Savignon1998">
```

```
<owl:ObjectProperty rdf:ID="hasColor">
  <rdf:type rdf:resource="&owl;FunctionalProperty" />
  <rdfs:subPropertyOf rdf:resource="#hasWineDescriptor" />
  <rdfs:domain rdf:resource="#Wine" />
  <rdfs:range rdf:resource="#WineColor" />
</owl:ObjectProperty>
```

```
<owl:ObjectProperty rdf:ID="madeFromGrape">
  <rdfs:subPropertyOf rdf:resource="&food;madeFromFruit" />
  <rdfs:domain rdf:resource="#Wine" />
  <rdfs:range rdf:resource="#WineGrape" />
</owl:ObjectProperty>
```

```
<owl:ObjectProperty rdf:ID="hasSugar">
  <rdf:type rdf:resource="&owl;FunctionalProperty" />
  <rdfs:subPropertyOf rdf:resource="#hasWineDescriptor" />
  <rdfs:range rdf:resource="#WineSugar" />
</owl:ObjectProperty>
```

```
<owl:DatatypeProperty rdf:ID="yearValue">
  <rdfs:domain rdf:resource="#VintageYear" />
  <rdfs:range rdf:resource="&xsd;positiveInteger" />
</owl:DatatypeProperty>
```

```
<owl:Class rdf:ID="VintageYear" />
```

```
<VintageYear rdf:ID="Year1998">
  <yearValue rdf:datatype="&xsd;positiveInteger">1998</yearValue>
</VintageYear>
```

```
<owl:ObjectProperty rdf:ID="hasVintageYear">
  <rdf:type rdf:resource="&owl;FunctionalProperty" />
  <rdfs:domain rdf:resource="#Vintage" />
  <rdfs:range rdf:resource="#VintageYear" />
</owl:ObjectProperty>
```

```
<Sauvignon rdf:ID="Savignon1998">
  <locatedIn rdf:resource="#ArroyoGrandeRegion" />
  <hasVintageYear rdf:resource="#Year1998" />
  <hasMaker rdf:resource="#SaucelitoCanyon" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Moderate" />
  <hasBody rdf:resource="#Medium" />
</Sauvignon>
```

```
<owl:Class rdf:ID="WhiteTableWine">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#TableWine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#White" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>
```

```
<owl:Class rdf:ID="WhiteNonSweetWine">
  <owl:intersectionOf rdf:parseType="Collection">
```

```
<owl:Class rdf:about="#WhiteWine" />
<owl:Restriction>
  <owl:onProperty rdf:resource="#hasSugar" />
  <owl:allValuesFrom>
    <owl:Class>
      <owl:oneOf rdf:parseType="Collection">
        <owl:Thing rdf:about="#Dry" />
        <owl:Thing rdf:about="#OffDry" />
      </owl:oneOf>
    </owl:Class>
  </owl:allValuesFrom>
</owl:Restriction>
</owl:intersectionOf>
</owl:Class>
```

```
<owl:Class rdf:ID="WhiteLoire">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Loire" />
    <owl:Class rdf:about="#WhiteWine" />
  </owl:intersectionOf>
</owl:Class>
```

```
<owl:Class rdf:about="#WhiteLoire">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:allValuesFrom>
        <owl:Class>
          <owl:oneOf rdf:parseType="Collection">
            <owl:Thing rdf:about="#CheninBlancGrape" />
            <owl:Thing rdf:about="#PinotBlancGrape" />
            <owl:Thing rdf:about="#SauvignonBlancGrape" />
          </owl:oneOf>
        </owl:Class>
      </owl:allValuesFrom>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
```

```
<owl:Class rdf:ID="WhiteBurgundy">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Burgundy" />
    <owl:Class rdf:about="#WhiteWine" />
  </owl:intersectionOf>
</owl:Class>
```

```
<owl:Class rdf:about="#WhiteBurgundy">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:hasValue rdf:resource="#ChardonnayGrape" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
```

```
<owl:Class rdf:ID="WhiteBordeaux">
  <owl:intersectionOf rdf:parseType="Collection">
```

```
<owl:Class rdf:about="#Bordeaux" />
<owl:Class rdf:about="#WhiteWine" />
</owl:intersectionOf>
</owl:Class>
```

```
<owl:Class rdf:about="#WhiteBordeaux">
<rdfs:subClassOf>
<owl:Restriction>
<owl:onProperty rdf:resource="#madeFromGrape" />
<owl:allValuesFrom>
<owl:Class>
<owl:oneOf rdf:parseType="Collection">
<owl:Thing rdf:about="#SemillonGrape" />
<owl:Thing rdf:about="#SauvignonBlancGrape" />
</owl:oneOf>
</owl:Class>
</owl:allValuesFrom>
</owl:Restriction>
</rdfs:subClassOf>
</owl:Class>
```

```
<owl:Class rdf:ID="Region" />
```

```
<owl:ObjectProperty rdf:ID="locatedIn">
<rdf:type rdf:resource="#owl:TransitiveProperty" />
<rdfs:domain rdf:resource="http://www.w3.org/2002/07/owl#Thing" />
<rdfs:range rdf:resource="#Region" />
</owl:ObjectProperty>
```

```
<owl:ObjectProperty rdf:ID="adjacentRegion">
<rdf:type rdf:resource="#owl:SymmetricProperty" />
<rdfs:domain rdf:resource="#Region" />
<rdfs:range rdf:resource="#Region" />
</owl:ObjectProperty>
```

```
<owl:Class rdf:ID="VintageYear" />
```

```
<owl:DatatypeProperty rdf:ID="yearValue">
<rdfs:domain rdf:resource="#VintageYear" />
<rdfs:range rdf:resource="#xsd:positiveInteger" />
</owl:DatatypeProperty>
```

```
<VintageYear rdf:ID="Year1998">
<yearValue rdf:datatype="#xsd:positiveInteger">1998</yearValue>
</VintageYear>
```

```
<owl:ObjectProperty rdf:ID="hasVintageYear">
<rdf:type rdf:resource="#owl:FunctionalProperty" />
<rdfs:domain rdf:resource="#Vintage" />
<rdfs:range rdf:resource="#VintageYear" />
</owl:ObjectProperty>
```

```
<owl:ObjectProperty rdf:ID="madeFromGrape">
<rdfs:subPropertyOf rdf:resource="#food:madeFromFruit" />
<rdfs:domain rdf:resource="#Wine" />
<rdfs:range rdf:resource="#WineGrape" />
</owl:ObjectProperty>
```

```
<owl:ObjectProperty rdf:ID="madeIntoWine">
<owl:inverseOf rdf:resource="#madeFromGrape" />
</owl:ObjectProperty>
```

```
<owl:ObjectProperty rdf:ID="hasWineDescriptor">
```

```

<rdfs:domain rdf:resource="#Wine" />
<rdfs:range rdf:resource="#WineDescriptor" />
</owl:ObjectProperty>

<owl:ObjectProperty rdf:ID="hasSugar">
<rdf:type rdf:resource="&owl;FunctionalProperty" />
<rdfs:subPropertyOf rdf:resource="#hasWineDescriptor" />
<rdfs:range rdf:resource="#WineSugar" />
</owl:ObjectProperty>

<owl:ObjectProperty rdf:ID="hasBody">
<rdf:type rdf:resource="&owl;FunctionalProperty" />
<rdfs:subPropertyOf rdf:resource="#hasWineDescriptor" />
<rdfs:range rdf:resource="#WineBody" />
</owl:ObjectProperty>

<owl:ObjectProperty rdf:ID="hasFlavor">
<rdf:type rdf:resource="&owl;FunctionalProperty" />
<rdfs:subPropertyOf rdf:resource="#hasWineDescriptor" />
<rdfs:range rdf:resource="#WineFlavor" />
</owl:ObjectProperty>

<owl:ObjectProperty rdf:ID="hasColor">
<rdf:type rdf:resource="&owl;FunctionalProperty" />
<rdfs:subPropertyOf rdf:resource="#hasWineDescriptor" />
<rdfs:domain rdf:resource="#Wine" />
<rdfs:range rdf:resource="#WineColor" />
</owl:ObjectProperty>

<owl:ObjectProperty rdf:ID="hasMaker">
<rdf:type rdf:resource="&owl;FunctionalProperty" />
</owl:ObjectProperty>

<owl:ObjectProperty rdf:ID="producesWine">
<owl:inverseOf rdf:resource="#hasMaker" />
</owl:ObjectProperty>

<owl:Class rdf:ID="Zinfandel">
<owl:intersectionOf rdf:parseType="Collection">
<owl:Class rdf:about="#Wine" />
<owl:Restriction>
<owl:onProperty rdf:resource="#madeFromGrape" />
<owl:hasValue rdf:resource="#ZinfandelGrape" />
</owl:Restriction>
<owl:Restriction>
<owl:onProperty rdf:resource="#madeFromGrape" />
<owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
</owl:Restriction>
</owl:intersectionOf>
</owl:Class>

<owl:Class rdf:about="#Zinfandel">
<rdfs:subClassOf>
<owl:Restriction>
<owl:onProperty rdf:resource="#hasColor" />
<owl:hasValue rdf:resource="#Red" />
</owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
<owl:Restriction>
<owl:onProperty rdf:resource="#hasSugar" />
<owl:hasValue rdf:resource="#Dry" />
</owl:Restriction>

```



```

</rdfs:subClassOf>
<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#hasBody" />
    <owl:allValuesFrom>
      <owl:Class>
        <owl:oneOf rdf:parseType="Collection">
          <owl:Thing rdf:about="#Full" />
          <owl:Thing rdf:about="#Medium" />
        </owl:oneOf>
      </owl:Class>
    </owl:allValuesFrom>
  </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#hasFlavor" />
    <owl:allValuesFrom>
      <owl:Class>
        <owl:oneOf rdf:parseType="Collection">
          <owl:Thing rdf:about="#Moderate" />
          <owl:Thing rdf:about="#Strong" />
        </owl:oneOf>
      </owl:Class>
    </owl:allValuesFrom>
  </owl:Restriction>
</rdfs:subClassOf>
</owl:Class>

<owl:Class rdf:ID="Winery" />

<owl:Class rdf:ID="WineDescriptor">
  <rdfs:comment>Made WineDescriptor unionType of tastes and color</rdfs:comment>
  <owl:unionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#WineTaste" />
    <owl:Class rdf:about="#WineColor" />
  </owl:unionOf>
</owl:Class>

<owl:Class rdf:ID="WineTaste">
  <rdfs:subClassOf rdf:resource="#WineDescriptor" />
</owl:Class>

<owl:Class rdf:ID="WineColor">
  <rdfs:subClassOf rdf:resource="#WineDescriptor" />
  <owl:oneOf rdf:parseType="Collection">
    <owl:Thing rdf:about="#White" />
    <owl:Thing rdf:about="#Rose" />
    <owl:Thing rdf:about="#Red" />
  </owl:oneOf>
</owl:Class>

<owl:Class rdf:ID="WineSugar">
  <rdfs:subClassOf rdf:resource="#WineTaste" />
  <owl:oneOf rdf:parseType="Collection">
    <owl:Thing rdf:about="#Sweet" />
    <owl:Thing rdf:about="#OffDry" />
    <owl:Thing rdf:about="#Dry" />
  </owl:oneOf>
</owl:Class>

<owl:Class rdf:ID="WineFlavor">
  <rdfs:subClassOf rdf:resource="#WineTaste" />

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<owl:oneOf rdf:parseType="Collection">
  <owl:Thing rdf:about="#Delicate" />
  <owl:Thing rdf:about="#Moderate" />
  <owl:Thing rdf:about="#Strong" />
</owl:oneOf>
</owl:Class>

<owl:Class rdf:ID="WineBody">
  <rdfs:subClassOf rdf:resource="#WineTaste" />
  <owl:oneOf rdf:parseType="Collection">
    <owl:Thing rdf:about="#Light" />
    <owl:Thing rdf:about="#Medium" />
    <owl:Thing rdf:about="#Full" />
  </owl:oneOf>
</owl:Class>

<Region rdf:ID="USRegion" />

<owl:Class rdf:ID="Tours">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Loire" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#ToursRegion" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

<owl:Class rdf:about="#Tours">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:hasValue rdf:resource="#CheninBlancGrape" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>

<owl:Class rdf:ID="TableWine">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasSugar" />
      <owl:hasValue rdf:resource="#Dry" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

<owl:Class rdf:ID="SweetWine">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasSugar" />
      <owl:hasValue rdf:resource="#Sweet" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

```

```

<owl:Class rdf:ID="SweetRiesling">
  <rdfs:subClassOf rdf:resource="#DessertWine" />
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasBody" />
      <owl:hasValue rdf:resource="#Full" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasFlavor" />
      <owl:allValuesFrom>
        <owl:Class>
          <owl:oneOf rdf:parseType="Collection">
            <owl:Thing rdf:about="#Moderate" />
            <owl:Thing rdf:about="#Strong" />
          </owl:oneOf>
        </owl:Class>
      </owl:allValuesFrom>
    </owl:Restriction>
  </rdfs:subClassOf>
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Riesling" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasSugar" />
      <owl:hasValue rdf:resource="#Sweet" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

```

```

<owl:Class rdf:ID="StEmilion">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#Red" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasFlavor" />
      <owl:hasValue rdf:resource="#Strong" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:hasValue rdf:resource="#CabernetSauvignonGrape" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
    </owl:Restriction>
  </rdfs:subClassOf>
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Bordeaux" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#StEmilionRegion" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

```

```

<owl:Class rdf:ID="SemillonOrSauvignonBlanc">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#White" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasBody" />
      <owl:allValuesFrom>
        <owl:Class>
          <owl:oneOf rdf:parseType="Collection">
            <owl:Thing rdf:about="#Medium" />
            <owl:Thing rdf:about="#Full" />
          </owl:oneOf>
        </owl:Class>
      </owl:allValuesFrom>
    </owl:Restriction>
  </rdfs:subClassOf>
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:allValuesFrom>
        <owl:Class>
          <owl:oneOf rdf:parseType="Collection">
            <owl:Thing rdf:about="#SemillonGrape" />
            <owl:Thing rdf:about="#SauvignonBlancGrape" />
          </owl:oneOf>
        </owl:Class>
      </owl:allValuesFrom>
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

```

```

<owl:Class rdf:ID="Semillon">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#SemillonOrSauvignonBlanc" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:hasValue rdf:resource="#SemillonGrape" />
    </owl:Restriction>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

```

```

<owl:Class rdf:ID="SauvignonBlanc">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#SemillonOrSauvignonBlanc" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:hasValue rdf:resource="#SauvignonBlancGrape" />
    </owl:Restriction>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
    </owl:Restriction>
  </owl:intersectionOf>

```

</owl:Class>

```
<owl:Class rdf:ID="Sauternes">
  <rdfs:subClassOf rdf:resource="#LateHarvest" />
  <rdfs:subClassOf rdf:resource="#Bordeaux" />
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#SauterneRegion" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasBody" />
      <owl:hasValue rdf:resource="#Medium" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#White" />
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
```

```
<owl:Class rdf:ID="Sancerre">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasBody" />
      <owl:hasValue rdf:resource="#Medium" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasSugar" />
      <owl:hasValue rdf:resource="#OffDry" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasFlavor" />
      <owl:hasValue rdf:resource="#Delicate" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:hasValue rdf:resource="#SauvignonBlancGrape" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
    </owl:Restriction>
  </rdfs:subClassOf>
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Loire" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#SancerreRegion" />
    </owl:Restriction>
  </owl:intersectionOf>
```

</owl:Class>

```
<owl:Class rdf:ID="RoseWine">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#Rose" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>
```

```
<owl:Class rdf:ID="Riesling">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#White" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:hasValue rdf:resource="#RieslingGrape" />
    </owl:Restriction>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>
```

```
<owl:Class rdf:ID="RedWine">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#Red" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>
```

```
<owl:Class rdf:ID="RedTableWine">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#TableWine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#Red" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>
```

```
<owl:Class rdf:ID="RedBurgundy">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:hasValue rdf:resource="#PinotNoirGrape" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
    </owl:Restriction>
  </rdfs:subClassOf>
```

```

    </owl:Restriction>
  </rdfs:subClassOf>
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Burgundy" />
    <owl:Class rdf:about="#RedWine" />
  </owl:intersectionOf>
</owl:Class>

<owl:Class rdf:ID="RedBordeaux">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:allValuesFrom>
        <owl:Class>
          <owl:oneOf rdf:parseType="Collection">
            <owl:Thing rdf:about="#CabernetSauvignonGrape" />
            <owl:Thing rdf:about="#MerlotGrape" />
          </owl:oneOf>
        </owl:Class>
      </owl:allValuesFrom>
    </owl:Restriction>
  </rdfs:subClassOf>
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Bordeaux" />
    <owl:Class rdf:about="#RedWine" />
  </owl:intersectionOf>
</owl:Class>

<owl:Class rdf:ID="Port">
  <rdfs:subClassOf rdf:resource="#RedWine" />
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#PortugalRegion" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasBody" />
      <owl:hasValue rdf:resource="#Full" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasFlavor" />
      <owl:hasValue rdf:resource="#Strong" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasSugar" />
      <owl:hasValue rdf:resource="#Sweet" />
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>

<owl:Class rdf:ID="PinotNoir">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#Red" />
    </owl:Restriction>
  </rdfs:subClassOf>

```

```

<owl:intersectionOf rdf:parseType="Collection">
  <owl:Class rdf:about="#Wine" />
  <owl:Restriction>
    <owl:onProperty rdf:resource="#madeFromGrape" />
    <owl:hasValue rdf:resource="#PinotNoirGrape" />
  </owl:Restriction>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#madeFromGrape" />
    <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
  </owl:Restriction>
</owl:intersectionOf>
</owl:Class>

```

```

<owl:Class rdf:ID="PinotBlanc">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#White" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:hasValue rdf:resource="#PinotBlancGrape" />
    </owl:Restriction>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

```

```

<owl:Class rdf:ID="PetiteSyrah">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#Red" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasSugar" />
      <owl:hasValue rdf:resource="#Dry" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasFlavor" />
      <owl:allValuesFrom>
        <owl:Class>
          <owl:oneOf rdf:parseType="Collection">
            <owl:Thing rdf:about="#Moderate" />
            <owl:Thing rdf:about="#Strong" />
          </owl:oneOf>
        </owl:Class>
      </owl:allValuesFrom>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasBody" />
      <owl:allValuesFrom>

```



```

    <owl:Class>
      <owl:oneOf rdf:parseType="Collection">
        <owl:Thing rdf:about="#Medium" />
        <owl:Thing rdf:about="#Full" />
      </owl:oneOf>
    </owl:Class>
  </owl:allValuesFrom>
</owl:Restriction>
</rdfs:subClassOf>
<owl:intersectionOf rdf:parseType="Collection">
  <owl:Class rdf:about="#Wine" />
  <owl:Restriction>
    <owl:onProperty rdf:resource="#madeFromGrape" />
    <owl:hasValue rdf:resource="#PetiteSyrahGrape" />
  </owl:Restriction>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#madeFromGrape" />
    <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
  </owl:Restriction>
</owl:intersectionOf>
</owl:Class>

```

```

<owl:Class rdf:ID="Pauillac">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasBody" />
      <owl:hasValue rdf:resource="#Full" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasFlavor" />
      <owl:hasValue rdf:resource="#Strong" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:hasValue rdf:resource="#CabernetSauvignonGrape" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
    </owl:Restriction>
  </rdfs:subClassOf>
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Medoc" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#PauillacRegion" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

```

```

<owl:Class rdf:ID="Muscadet">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasBody" />
      <owl:hasValue rdf:resource="#Light" />
    </owl:Restriction>
  </rdfs:subClassOf>

```

```

<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#hasFlavor" />
    <owl:hasValue rdf:resource="#Delicate" />
  </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#hasSugar" />
    <owl:hasValue rdf:resource="#Dry" />
  </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#madeFromGrape" />
    <owl:hasValue rdf:resource="#PinotBlancGrape" />
  </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#madeFromGrape" />
    <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
  </owl:Restriction>
</rdfs:subClassOf>
<owl:intersectionOf rdf:parseType="Collection">
  <owl:Class rdf:about="#Loire" />
  <owl:Restriction>
    <owl:onProperty rdf:resource="#locatedIn" />
    <owl:hasValue rdf:resource="#MuscadetRegion" />
  </owl:Restriction>
</owl:intersectionOf>
</owl:Class>

```

```

<owl:Class rdf:ID="Meursault">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasBody" />
      <owl:hasValue rdf:resource="#Full" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#WhiteBurgundy" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#MeursaultRegion" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

```

```

<owl:Class rdf:ID="Merlot">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#Red" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasSugar" />
      <owl:hasValue rdf:resource="#Dry" />
    </owl:Restriction>
  </rdfs:subClassOf>
</rdfs:subClassOf>

```

```

<owl:Restriction>
  <owl:onProperty rdf:resource="#hasFlavor" />
  <owl:allValuesFrom>
    <owl:Class>
      <owl:oneOf rdf:parseType="Collection">
        <owl:Thing rdf:about="#Moderate" />
        <owl:Thing rdf:about="#Delicate" />
      </owl:oneOf>
    </owl:Class>
  </owl:allValuesFrom>
</owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#hasBody" />
    <owl:allValuesFrom>
      <owl:Class>
        <owl:oneOf rdf:parseType="Collection">
          <owl:Thing rdf:about="#Light" />
          <owl:Thing rdf:about="#Medium" />
        </owl:oneOf>
      </owl:Class>
    </owl:allValuesFrom>
  </owl:Restriction>
</rdfs:subClassOf>
<owl:intersectionOf rdf:parseType="Collection">
  <owl:Class rdf:about="#Wine" />
  <owl:Restriction>
    <owl:onProperty rdf:resource="#madeFromGrape" />
    <owl:hasValue rdf:resource="#MerlotGrape" />
  </owl:Restriction>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#madeFromGrape" />
    <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
  </owl:Restriction>
</owl:intersectionOf>
</owl:Class>

<owl:Class rdf:ID="Meritage">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#Red" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:allValuesFrom>
        <owl:Class>
          <owl:oneOf rdf:parseType="Collection">
            <owl:Thing rdf:about="#CabernetSauvignonGrape" />
            <owl:Thing rdf:about="#CabernetFrancGrape" />
            <owl:Thing rdf:about="#MalbecGrape" />
            <owl:Thing rdf:about="#PetiteVerdotGrape" />
            <owl:Thing rdf:about="#MerlotGrape" />
          </owl:oneOf>
        </owl:Class>
      </owl:allValuesFrom>
    </owl:Restriction>
  </owl:intersectionOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#madeFromGrape" />

```

```
    <owl:minCardinality rdf:datatype="&xsd;nonNegativeInteger">2</owl:minCardinality>
  </owl:Restriction>
</owl:intersectionOf>
</owl:Class>
```

```
<Region rdf:ID="MedocRegion">
  <locatedIn rdf:resource="#BordeauxRegion" />
</Region>
```

```
<owl:Class rdf:ID="Medoc">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#Red" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasSugar" />
      <owl:hasValue rdf:resource="#Dry" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Bordeaux" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#MedocRegion" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>
```

```
<owl:Class rdf:ID="Margaux">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasFlavor" />
      <owl:hasValue rdf:resource="#Delicate" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:hasValue rdf:resource="#MerlotGrape" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
    </owl:Restriction>
  </rdfs:subClassOf>
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Medoc" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#MargauxRegion" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>
```

```
<Region rdf:ID="LoireRegion">
  <locatedIn rdf:resource="#FrenchRegion" />
</Region>
```

```
<owl:Class rdf:ID="Loire">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#LoireRegion" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>
```

```
<owl:Class rdf:ID="LateHarvest">
  <rdfs:subClassOf rdf:resource="#Wine" />
  <owl:disjointWith rdf:resource="#EarlyHarvest" />
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasSugar" />
      <owl:hasValue rdf:resource="#Sweet" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasFlavor" />
      <owl:allValuesFrom>
        <owl:Class>
          <owl:oneOf rdf:parseType="Collection">
            <owl:Thing rdf:about="#Moderate" />
            <owl:Thing rdf:about="#Strong" />
          </owl:oneOf>
        </owl:Class>
      </owl:allValuesFrom>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
```

```
<owl:Class rdf:ID="ItalianWine">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#ItalianRegion" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>
```

```
<Region rdf:ID="ItalianRegion" />
```

```
<owl:Class rdf:ID="IceWine">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasBody" />
      <owl:allValuesFrom>
        <owl:Class>
          <owl:oneOf rdf:parseType="Collection">
            <owl:Thing rdf:about="#Medium" />
            <owl:Thing rdf:about="#Full" />
          </owl:oneOf>
        </owl:Class>
      </owl:allValuesFrom>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasFlavor" />
```

```

<owl:allValuesFrom>
  <owl:Class>
    <owl:oneOf rdf:parseType="Collection">
      <owl:Thing rdf:about="#Moderate" />
      <owl:Thing rdf:about="#Strong" />
    </owl:oneOf>
  </owl:Class>
</owl:allValuesFrom>
</owl:Restriction>
</rdfs:subClassOf>
<owl:intersectionOf rdf:parseType="Collection">
  <owl:Class rdf:about="#LateHarvest" />
  <owl:Class rdf:about="#DessertWine" />
  <owl:Restriction>
    <owl:onProperty rdf:resource="#hasColor" />
    <owl:hasValue rdf:resource="#White" />
  </owl:Restriction>
</owl:intersectionOf>
</owl:Class>

<owl:Class rdf:ID="GermanWine">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#GermanyRegion" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

<owl:Class rdf:ID="Gamay">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:hasValue rdf:resource="#GamayGrape" />
    </owl:Restriction>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

<owl:Class rdf:ID="FullBodiedWine">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasBody" />
      <owl:hasValue rdf:resource="#Full" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

<Region rdf:ID="FrenchRegion" />

<owl:Class rdf:ID="FrenchWine">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#FrenchRegion" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

```

```

</owl:intersectionOf>
</owl:Class>

<owl:Class rdf:ID="EarlyHarvest">
<rdfs:subClassOf rdf:resource="#Wine" />
<rdfs:subClassOf>
<owl:Restriction>
<owl:onProperty rdf:resource="#hasSugar" />
<owl:allValuesFrom>
<owl:Class>
<owl:oneOf rdf:parseType="Collection">
<owl:Thing rdf:about="#Dry" />
<owl:Thing rdf:about="#OffDry" />
</owl:oneOf>
</owl:Class>
</owl:allValuesFrom>
</owl:Restriction>
</rdfs:subClassOf>
</owl:Class>

<owl:Class rdf:ID="DryWine">
<owl:intersectionOf rdf:parseType="Collection">
<owl:Class rdf:about="#Wine" />
<owl:Restriction>
<owl:onProperty rdf:resource="#hasSugar" />
<owl:hasValue rdf:resource="#Dry" />
</owl:Restriction>
</owl:intersectionOf>
</owl:Class>

<owl:Class rdf:ID="DryWhiteWine">
<owl:intersectionOf rdf:parseType="Collection">
<owl:Class rdf:about="#DryWine" />
<owl:Class rdf:about="#WhiteWine" />
</owl:intersectionOf>
</owl:Class>

<owl:Class rdf:ID="DryRiesling">
<rdfs:subClassOf>
<owl:Restriction>
<owl:onProperty rdf:resource="#hasColor" />
<owl:hasValue rdf:resource="#White" />
</owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
<owl:Restriction>
<owl:onProperty rdf:resource="#hasFlavor" />
<owl:hasValue rdf:resource="#Delicate" />
</owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
<owl:Restriction>
<owl:onProperty rdf:resource="#hasBody" />
<owl:allValuesFrom>
<owl:Class>
<owl:oneOf rdf:parseType="Collection">
<owl:Thing rdf:about="#Light" />
<owl:Thing rdf:about="#Medium" />
</owl:oneOf>
</owl:Class>
</owl:allValuesFrom>
</owl:Restriction>
</rdfs:subClassOf>

```

```
<owl:intersectionOf rdf:parseType="Collection">
  <owl:Class rdf:about="#Riesling" />
  <owl:Restriction>
    <owl:onProperty rdf:resource="#hasSugar" />
    <owl:hasValue rdf:resource="#Dry" />
  </owl:Restriction>
</owl:intersectionOf>
</owl:Class>
```

```
<owl:Class rdf:ID="DryRedWine">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#DryWine" />
    <owl:Class rdf:about="#RedWine" />
  </owl:intersectionOf>
</owl:Class>
```

```
<owl:Class rdf:ID="DessertWine">
  <rdfs:subClassOf rdf:resource="#Wine" />
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasSugar" />
      <owl:allValuesFrom>
        <owl:Class>
          <owl:oneOf rdf:parseType="Collection">
            <owl:Thing rdf:about="#OffDry" />
            <owl:Thing rdf:about="#Sweet" />
          </owl:oneOf>
        </owl:Class>
      </owl:allValuesFrom>
    </owl:Restriction>
  </rdfs:subClassOf>
</owl:Class>
```

```
<owl:Class rdf:ID="CotesDOr">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasFlavor" />
      <owl:hasValue rdf:resource="#Moderate" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#RedBurgundy" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#CotesDOrRegion" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>
```

```
<owl:Class rdf:ID="Chianti">
  <rdfs:subClassOf rdf:resource="#ItalianWine" />
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#ChiantiRegion" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#Red" />
    </owl:Restriction>
  </rdfs:subClassOf>
```



```

<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#madeFromGrape" />
    <owl:hasValue rdf:resource="#SangioveseGrape" />
  </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#hasFlavor" />
    <owl:hasValue rdf:resource="#Moderate" />
  </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#hasSugar" />
    <owl:hasValue rdf:resource="#Dry" />
  </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#hasBody" />
    <owl:allValuesFrom>
      <owl:Class>
        <owl:oneOf rdf:parseType="Collection">
          <owl:Thing rdf:about="#Light" />
          <owl:Thing rdf:about="#Medium" />
        </owl:oneOf>
      </owl:Class>
    </owl:allValuesFrom>
  </owl:Restriction>
</rdfs:subClassOf>
</owl:Class>

```

```

<owl:Class rdf:ID="CheninBlanc">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#White" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasFlavor" />
      <owl:hasValue rdf:resource="#Moderate" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasBody" />
      <owl:allValuesFrom>
        <owl:Class>
          <owl:oneOf rdf:parseType="Collection">
            <owl:Thing rdf:about="#Full" />
            <owl:Thing rdf:about="#Medium" />
          </owl:oneOf>
        </owl:Class>
      </owl:allValuesFrom>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasSugar" />
      <owl:allValuesFrom>

```

```

    <owl:Class>
      <owl:oneOf rdf:parseType="Collection">
        <owl:Thing rdf:about="#Dry" />
        <owl:Thing rdf:about="#OffDry" />
      </owl:oneOf>
    </owl:Class>
  </owl:allValuesFrom>
</owl:Restriction>
</rdfs:subClassOf>
<owl:intersectionOf rdf:parseType="Collection">
  <owl:Class rdf:about="#Wine" />
  <owl:Restriction>
    <owl:onProperty rdf:resource="#madeFromGrape" />
    <owl:hasValue rdf:resource="#CheninBlancGrape" />
  </owl:Restriction>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#madeFromGrape" />
    <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
  </owl:Restriction>
</owl:intersectionOf>
</owl:Class>

```

```

<owl:Class rdf:ID="Chardonnay">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#White" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasBody" />
      <owl:allValuesFrom>
        <owl:Class>
          <owl:oneOf rdf:parseType="Collection">
            <owl:Thing rdf:about="#Full" />
            <owl:Thing rdf:about="#Medium" />
          </owl:oneOf>
        </owl:Class>
      </owl:allValuesFrom>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasFlavor" />
      <owl:allValuesFrom>
        <owl:Class>
          <owl:oneOf rdf:parseType="Collection">
            <owl:Thing rdf:about="#Strong" />
            <owl:Thing rdf:about="#Moderate" />
          </owl:oneOf>
        </owl:Class>
      </owl:allValuesFrom>
    </owl:Restriction>
  </rdfs:subClassOf>
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:hasValue rdf:resource="#ChardonnayGrape" />
    </owl:Restriction>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />

```

```

    <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
  </owl:Restriction>
</owl:intersectionOf>
</owl:Class>

<Region rdf:ID="CaliforniaRegion">
  <locatedIn rdf:resource="#USRegion" />
</Region>

<Region rdf:ID="TexasRegion">
  <locatedIn rdf:resource="#USRegion" />
</Region>

<owl:Class rdf:ID="CaliforniaWine">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#CaliforniaRegion" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

<owl:Class rdf:ID="TexasWine">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#TexasRegion" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

<owl:Class rdf:ID="CabernetSauvignon">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#Red" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasSugar" />
      <owl:hasValue rdf:resource="#Dry" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasFlavor" />
      <owl:allValuesFrom>
        <owl:Class>
          <owl:oneOf rdf:parseType="Collection">
            <owl:Thing rdf:about="#Moderate" />
            <owl:Thing rdf:about="#Strong" />
          </owl:oneOf>
        </owl:Class>
      </owl:allValuesFrom>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasBody" />
      <owl:allValuesFrom>

```

```

    <owl:Class>
      <owl:oneOf rdf:parseType="Collection">
        <owl:Thing rdf:about="#Medium" />
        <owl:Thing rdf:about="#Full" />
      </owl:oneOf>
    </owl:Class>
  </owl:allValuesFrom>
</owl:Restriction>
</rdfs:subClassOf>
<owl:intersectionOf rdf:parseType="Collection">
  <owl:Class rdf:about="#Wine" />
  <owl:Restriction>
    <owl:onProperty rdf:resource="#madeFromGrape" />
    <owl:hasValue rdf:resource="#CabernetSauvignonGrape" />
  </owl:Restriction>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#madeFromGrape" />
    <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
  </owl:Restriction>
</owl:intersectionOf>
</owl:Class>

```

```

<owl:Class rdf:ID="CabernetFranc">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#Red" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasFlavor" />
      <owl:hasValue rdf:resource="#Moderate" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasBody" />
      <owl:hasValue rdf:resource="#Medium" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasSugar" />
      <owl:hasValue rdf:resource="#Dry" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:hasValue rdf:resource="#CabernetFrancGrape" />
    </owl:Restriction>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

```

```

<owl:Class rdf:ID="Burgundy">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />

```

```
<owl:Restriction>
  <owl:onProperty rdf:resource="#locatedIn" />
  <owl:hasValue rdf:resource="#BourgogneRegion" />
</owl:Restriction>
</owl:intersectionOf>
<rdfs:subClassOf>
  <owl:Restriction>
    <owl:onProperty rdf:resource="#hasSugar" />
    <owl:hasValue rdf:resource="#Dry" />
  </owl:Restriction>
</rdfs:subClassOf>
</owl:Class>
```

```
<Region rdf:ID="BourgogneRegion">
  <locatedIn rdf:resource="#FrenchRegion" />
</Region>
```

```
<Region rdf:ID="BordeauxRegion">
  <locatedIn rdf:resource="#FrenchRegion" />
</Region>
```

```
<owl:Class rdf:ID="Bordeaux">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#BordeauxRegion" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>
```

```
<owl:Class rdf:ID="Beaujolais">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#Red" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasBody" />
      <owl:hasValue rdf:resource="#Light" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasSugar" />
      <owl:hasValue rdf:resource="#Dry" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasFlavor" />
      <owl:hasValue rdf:resource="#Delicate" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#madeFromGrape" />
      <owl:hasValue rdf:resource="#GamayGrape" />
    </owl:Restriction>
  </rdfs:subClassOf>
</rdfs:subClassOf>
```

```

<owl:Restriction>
  <owl:onProperty rdf:resource="#madeFromGrape" />
  <owl:maxCardinality rdf:datatype="&xsd;nonNegativeInteger">1</owl:maxCardinality>
</owl:Restriction>
</rdfs:subClassOf>
<owl:intersectionOf rdf:parseType="Collection">
  <owl:Class rdf:about="#Wine" />
  <owl:Restriction>
    <owl:onProperty rdf:resource="#locatedIn" />
    <owl:hasValue rdf:resource="#BeaujolaisRegion" />
  </owl:Restriction>
</owl:intersectionOf>
</owl:Class>

```

```

<Region rdf:ID="AustralianRegion" />

```

```

<owl:Class rdf:ID="Anjou">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasColor" />
      <owl:hasValue rdf:resource="#Rose" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasBody" />
      <owl:hasValue rdf:resource="#Light" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasFlavor" />
      <owl:hasValue rdf:resource="#Delicate" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty rdf:resource="#hasSugar" />
      <owl:hasValue rdf:resource="#OffDry" />
    </owl:Restriction>
  </rdfs:subClassOf>
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Loire" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#AnjouRegion" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

```

```

<owl:Class rdf:ID="AmericanWine">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />
    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#USRegion" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

```

```

<owl:Class rdf:ID="AlsatianWine">
  <owl:intersectionOf rdf:parseType="Collection">
    <owl:Class rdf:about="#Wine" />

```

```

    <owl:Restriction>
      <owl:onProperty rdf:resource="#locatedIn" />
      <owl:hasValue rdf:resource="#AlsaceRegion" />
    </owl:Restriction>
  </owl:intersectionOf>
</owl:Class>

<WineBody rdf:ID="Full" />

<WineBody rdf:ID="Medium" />

<WineBody rdf:ID="Light" />

<WineColor rdf:ID="Red" />

<WineColor rdf:ID="Rose" />

<WineColor rdf:ID="White" />

<WineFlavor rdf:ID="Strong" />

<WineFlavor rdf:ID="Moderate" />

<WineFlavor rdf:ID="Delicate" />

<WineSugar rdf:ID="Dry" />

<WineSugar rdf:ID="OffDry">
  <owl:differentFrom rdf:resource="#Dry"/>
  <owl:differentFrom rdf:resource="#Sweet"/>
</WineSugar>

<WineSugar rdf:ID="Sweet">
  <owl:differentFrom rdf:resource="#Dry"/>
</WineSugar>

<owl:AllDifferent>
  <owl:distinctMembers rdf:parseType="Collection">
    <vin:WineColor rdf:about="#Red" />
    <vin:WineColor rdf:about="#White" />
    <vin:WineColor rdf:about="#Rose" />
  </owl:distinctMembers>
</owl:AllDifferent>

<owl:AllDifferent>
  <owl:distinctMembers rdf:parseType="Collection">
    <vin:WineBody rdf:about="#Light" />
    <vin:WineBody rdf:about="#Medium" />
    <vin:WineBody rdf:about="#Full" />
  </owl:distinctMembers>
</owl:AllDifferent>

<owl:AllDifferent>
  <owl:distinctMembers rdf:parseType="Collection">
    <vin:WineFlavor rdf:about="#Delicate" />
    <vin:WineFlavor rdf:about="#Moderate" />
    <vin:WineFlavor rdf:about="#Strong" />
  </owl:distinctMembers>
</owl:AllDifferent>

<owl:AllDifferent>
  <owl:distinctMembers rdf:parseType="Collection">
    <vin:WineSugar rdf:about="#Sweet" />

```

```
<vin:WineSugar rdf:about="#OffDry" />
<vin:WineSugar rdf:about="#Dry" />
</owl:distinctMembers>
</owl:AllDifferent>

<Region rdf:ID="AlsaceRegion">
<locatedIn rdf:resource="#FrenchRegion" />
</Region>

<Region rdf:ID="AnjouRegion">
<locatedIn rdf:resource="#LoireRegion" />
</Region>

<Region rdf:ID="ArroyoGrandeRegion">
<locatedIn rdf:resource="#CaliforniaRegion" />
</Region>

<Winery rdf:ID="Beringer" />

<Winery rdf:ID="Bancroft" />

<Region rdf:ID="BeaujolaisRegion">
<locatedIn rdf:resource="#FrenchRegion" />
</Region>

<WineGrape rdf:ID="CabernetFrancGrape" />

<WineGrape rdf:ID="CabernetSauvignonGrape" />

<Region rdf:ID="CentralCoastRegion">
<locatedIn rdf:resource="#CaliforniaRegion" />
</Region>

<WineGrape rdf:ID="ChardonnayGrape" />

<Winery rdf:ID="ChateauChevalBlanc" />

<StEmilion rdf:ID="ChateauChevalBlancStEmilion">
<hasMaker rdf:resource="#ChateauChevalBlanc" />
</StEmilion>

<Winery rdf:ID="ChateauDYchem" />

<Sauternes rdf:ID="ChateauDYchemSauterne">
<madeFromGrape rdf:resource="#SauvignonBlancGrape" />
<madeFromGrape rdf:resource="#SemillonGrape" />
<hasFlavor rdf:resource="#Strong" />
<hasMaker rdf:resource="#ChateauDYchem" />
</Sauternes>

<Winery rdf:ID="ChateauDeMeursault" />

<Meursault rdf:ID="ChateauDeMeursaultMeursault">
<hasFlavor rdf:resource="#Moderate" />
<hasMaker rdf:resource="#ChateauDeMeursault" />
</Meursault>

<Winery rdf:ID="ChateauLafiteRothschild" />

<Pauillac rdf:ID="ChateauLafiteRothschildPauillac">
<hasMaker rdf:resource="#ChateauLafiteRothschild" />
```



```
</Pauillac>

<Margaux rdf:ID="ChateauMargaux">
  <hasMaker rdf:resource="#ChateauMargauxWinery" />
</Margaux>

<Winery rdf:ID="ChateauMargauxWinery" />

<Winery rdf:ID="ChateauMorgon" />

<Beaujolais rdf:ID="ChateauMorgonBeaujolais">
  <hasMaker rdf:resource="#ChateauMorgon" />
</Beaujolais>

<WineGrape rdf:ID="CheninBlancGrape" />

<WineGrape rdf:ID="ZinfandelGrape" />

<Chianti rdf:ID="ChiantiClassico">
  <hasBody rdf:resource="#Medium" />
  <hasMaker rdf:resource="#McGuinnesso" />
</Chianti>

<Region rdf:ID="ChiantiRegion">
  <locatedIn rdf:resource="#ItalianRegion" />
</Region>

<Winery rdf:ID="ClosDeLaPoussie" />

<Sancerre rdf:ID="ClosDeLaPoussieSancerre">
  <hasMaker rdf:resource="#ClosDeLaPoussie" />
</Sancerre>

<Winery rdf:ID="ClosDeVougeot" />

<CotesDOr rdf:ID="ClosDeVougeotCotesDOr">
  <hasMaker rdf:resource="#ClosDeVougeot" />
</CotesDOr>

<Winery rdf:ID="CongressSprings" />

<Semillon rdf:ID="CongressSpringsSemillon">
  <hasMaker rdf:resource="#CongressSprings" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Moderate" />
  <hasBody rdf:resource="#Medium" />
</Semillon>

<Winery rdf:ID="Corbans" />

<Riesling rdf:ID="CorbansDryWhiteRiesling">
  <locatedIn rdf:resource="#NewZealandRegion" />
  <hasMaker rdf:resource="#Corbans" />
  <hasSugar rdf:resource="#OffDry" />
  <hasFlavor rdf:resource="#Moderate" />
  <hasBody rdf:resource="#Medium" />
</Riesling>

<SauvignonBlanc rdf:ID="CorbansPrivateBinSauvignonBlanc">
  <locatedIn rdf:resource="#NewZealandRegion" />
  <hasMaker rdf:resource="#Corbans" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Strong" />
```

```
<hasBody rdf:resource="#Full" />
</SauvignonBlanc>

<SauvignonBlanc rdf:ID="CorbansSauvignonBlanc">
  <locatedIn rdf:resource="#NewZealandRegion" />
  <hasMaker rdf:resource="#Corbans" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Strong" />
  <hasBody rdf:resource="#Medium" />
</SauvignonBlanc>

<Winery rdf:ID="CortonMontrachet" />

<WhiteBurgundy rdf:ID="CortonMontrachetWhiteBurgundy">
  <hasMaker rdf:resource="#CortonMontrachet" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Strong" />
  <hasBody rdf:resource="#Full" />
</WhiteBurgundy>

<Region rdf:ID="CotesDOrRegion">
  <locatedIn rdf:resource="#BourgogneRegion" />
</Region>

<Winery rdf:ID="Cotturi" />

<Zinfandel rdf:ID="CotturiZinfandel">
  <locatedIn rdf:resource="#SonomaRegion" />
  <hasMaker rdf:resource="#Cotturi" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Strong" />
  <hasBody rdf:resource="#Full" />
</Zinfandel>

<Winery rdf:ID="DAnjou" />

<Region rdf:ID="EdnaValleyRegion">
  <locatedIn rdf:resource="#CaliforniaRegion" />
</Region>

<Winery rdf:ID="Elyse" />

<Zinfandel rdf:ID="ElyseZinfandel">
  <locatedIn rdf:resource="#NapaRegion" />
  <hasMaker rdf:resource="#Elyse" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Moderate" />
  <hasBody rdf:resource="#Full" />
</Zinfandel>

<Winery rdf:ID="Forman" />

<CabernetSauvignon rdf:ID="FormanCabernetSauvignon">
  <locatedIn rdf:resource="#NapaRegion" />
  <hasMaker rdf:resource="#Forman" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Strong" />
  <hasBody rdf:resource="#Medium" />
</CabernetSauvignon>

<Chardonnay rdf:ID="FormanChardonnay">
  <locatedIn rdf:resource="#NapaRegion" />
  <hasMaker rdf:resource="#Forman" />
```

```
<hasSugar rdf:resource="#Dry" />
<hasFlavor rdf:resource="#Moderate" />
<hasBody rdf:resource="#Full" />
</Chardonnay>
```

```
<Winery rdf:ID="Foxen" />
```

```
<CheninBlanc rdf:ID="FoxenCheninBlanc">
  <locatedIn rdf:resource="#SantaBarbaraRegion" />
  <hasMaker rdf:resource="#Foxen" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Moderate" />
  <hasBody rdf:resource="#Full" />
</CheninBlanc>
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```
<WineGrape rdf:ID="GamayGrape" />
```

```
<Winery rdf:ID="GaryFarrell" />
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```
<Merlot rdf:ID="GaryFarrellMerlot">
  <locatedIn rdf:resource="#SonomaRegion" />
  <hasMaker rdf:resource="#GaryFarrell" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Moderate" />
  <hasBody rdf:resource="#Medium" />
</Merlot>
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```
<Region rdf:ID="GermanyRegion" />
```

```
<Winery rdf:ID="Handley" />
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```
<Winery rdf:ID="KalinCellars" />
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```
<Semillon rdf:ID="KalinCellarsSemillon">
  <hasMaker rdf:resource="#KalinCellars" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Strong" />
  <hasBody rdf:resource="#Full" />
</Semillon>
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<Winery rdf:ID="KathrynKennedy" />
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```
<Meritage rdf:ID="KathrynKennedyLateral">
  <hasMaker rdf:resource="#KathrynKennedy" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Delicate" />
  <hasBody rdf:resource="#Medium" />
</Meritage>
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```
<Winery rdf:ID="LaneTanner" />
```

```
<PinotNoir rdf:ID="LaneTannerPinotNoir">
  <locatedIn rdf:resource="#SantaBarbaraRegion" />
  <hasMaker rdf:resource="#LaneTanner" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Delicate" />
  <hasBody rdf:resource="#Light" />
</PinotNoir>
```

```
<Winery rdf:ID="Longridge" />
```

```
<Merlot rdf:ID="LongridgeMerlot">
  <locatedIn rdf:resource="#NewZealandRegion" />
```

```

<hasMaker rdf:resource="#Longridge" />
<hasSugar rdf:resource="#Dry" />
<hasFlavor rdf:resource="#Moderate" />
<hasBody rdf:resource="#Light" />
</Merlot>

<WineGrape rdf:ID="MalbecGrape" />

<Region rdf:ID="MargauxRegion">
  <locatedIn rdf:resource="#MedocRegion" />
</Region>

<Winery rdf:ID="Marietta" />

<CabernetSauvignon rdf:ID="MariettaCabernetSauvignon">
  <locatedIn rdf:resource="#SonomaRegion" />
  <hasMaker rdf:resource="#Marietta" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Moderate" />
  <hasBody rdf:resource="#Medium" />
</CabernetSauvignon>

<RedTableWine rdf:ID="MariettaOldVinesRed">
  <locatedIn rdf:resource="#SonomaRegion" />
  <hasMaker rdf:resource="#Marietta" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Moderate" />
  <hasBody rdf:resource="#Medium" />
</RedTableWine>

<PetiteSyrah rdf:ID="MariettaPetiteSyrah">
  <locatedIn rdf:resource="#SonomaRegion" />
  <hasMaker rdf:resource="#Marietta" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Moderate" />
  <hasBody rdf:resource="#Medium" />
</PetiteSyrah>

<Zinfandel rdf:ID="MariettaZinfandel">
  <locatedIn rdf:resource="#SonomaRegion" />
  <hasMaker rdf:resource="#Marietta" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Moderate" />
  <hasBody rdf:resource="#Medium" />
</Zinfandel>

<Winery rdf:ID="McGuinnesso" />

<Region rdf:ID="MendocinoRegion">
  <locatedIn rdf:resource="#CaliforniaRegion" />
  <adjacentRegion rdf:resource="#SonomaRegion" />
</Region>

<WineGrape rdf:ID="MerlotGrape" />

<Region rdf:ID="MeursaultRegion">
  <locatedIn rdf:resource="#BourgogneRegion" />
</Region>

<Winery rdf:ID="MountEdenVineyard" />

<Chardonnay rdf:ID="MountEdenVineyardEdnaValleyChardonnay">
  <locatedIn rdf:resource="#EdnaValleyRegion" />

```

```
<hasMaker rdf:resource="#MountEdenVineyard" />
<hasSugar rdf:resource="#Dry" />
<hasFlavor rdf:resource="#Moderate" />
<hasBody rdf:resource="#Medium" />
</Chardonnay>

<PinotNoir rdf:ID="MountEdenVineyardEstatePinotNoir">
<locatedIn rdf:resource="#EdnaValleyRegion" />
<hasMaker rdf:resource="#MountEdenVineyard" />
<hasSugar rdf:resource="#Dry" />
<hasFlavor rdf:resource="#Strong" />
<hasBody rdf:resource="#Full" />
</PinotNoir>

<Winery rdf:ID="Mountadam" />

<Chardonnay rdf:ID="MountadamChardonnay">
<locatedIn rdf:resource="#SouthAustraliaRegion" />
<hasMaker rdf:resource="#Mountadam" />
<hasSugar rdf:resource="#Dry" />
<hasFlavor rdf:resource="#Strong" />
<hasBody rdf:resource="#Full" />
</Chardonnay>

<PinotNoir rdf:ID="MountadamPinotNoir">
<locatedIn rdf:resource="#SouthAustraliaRegion" />
<hasMaker rdf:resource="#Mountadam" />
<hasSugar rdf:resource="#Dry" />
<hasFlavor rdf:resource="#Moderate" />
<hasBody rdf:resource="#Medium" />
</PinotNoir>

<DryRiesling rdf:ID="MountadamRiesling">
<locatedIn rdf:resource="#SouthAustraliaRegion" />
<hasMaker rdf:resource="#Mountadam" />
<hasSugar rdf:resource="#Dry" />
<hasFlavor rdf:resource="#Delicate" />
<hasBody rdf:resource="#Medium" />
</DryRiesling>

<Region rdf:ID="MuscadetRegion">
<locatedIn rdf:resource="#LoireRegion" />
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<Region rdf:ID="NapaRegion">
<locatedIn rdf:resource="#CaliforniaRegion" />
</Region>

<Region rdf:ID="NewZealandRegion" />

<Winery rdf:ID="PageMillWinery" />

<CabernetSauvignon rdf:ID="PageMillWineryCabernetSauvignon">
<locatedIn rdf:resource="#NapaRegion" />
<hasMaker rdf:resource="#PageMillWinery" />
<hasSugar rdf:resource="#Dry" />
<hasFlavor rdf:resource="#Moderate" />
<hasBody rdf:resource="#Medium" />
</CabernetSauvignon>

<Region rdf:ID="PauillacRegion">
<locatedIn rdf:resource="#MedocRegion" />
</Region>
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<Winery rdf:ID="PeterMccoy" />

<Chardonnay rdf:ID="PeterMccoyChardonnay">
  <locatedIn rdf:resource="#SonomaRegion" />
  <hasMaker rdf:resource="#PeterMccoy" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Moderate" />
  <hasBody rdf:resource="#Medium" />
</Chardonnay>

<WineGrape rdf:ID="PetiteSyrahGrape" />

<WineGrape rdf:ID="PetiteVerdotGrape" />

<WineGrape rdf:ID="PinotBlancGrape" />

<WineGrape rdf:ID="PinotNoirGrape" />

<Region rdf:ID="PortugalRegion" />

<Winery rdf:ID="PulignyMontrachet" />

<WhiteBurgundy rdf:ID="PulignyMontrachetWhiteBurgundy">
  <hasMaker rdf:resource="#PulignyMontrachet" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Moderate" />
  <hasBody rdf:resource="#Medium" />
</WhiteBurgundy>

<WineGrape rdf:ID="RieslingGrape" />

<Anjou rdf:ID="RoseDAnjou">
  <hasMaker rdf:resource="#DAnjou" />
</Anjou>

<Region rdf:ID="SancerreRegion">
  <locatedIn rdf:resource="#LoireRegion" />
</Region>

<WineGrape rdf:ID="SangioveseGrape" />

<Region rdf:ID="SantaBarbaraRegion">
  <locatedIn rdf:resource="#CaliforniaRegion" />
</Region>

<Winery rdf:ID="SantaCruzMountainVineyard" />

<CabernetSauvignon rdf:ID="SantaCruzMountainVineyardCabernetSauvignon">
  <locatedIn rdf:resource="#SantaCruzMountainsRegion" />
  <hasMaker rdf:resource="#SantaCruzMountainVineyard" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Strong" />
  <hasBody rdf:resource="#Full" />
</CabernetSauvignon>

<Region rdf:ID="CentralTexasRegion">
  <locatedIn rdf:resource="#TexasRegion" />
</Region>

<Winery rdf:ID="StGenevieve" />

<WhiteWine rdf:ID="StGenevieveTexasWhite">
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<locatedIn rdf:resource="#CentralTexasRegion" />
<hasMaker rdf:resource="#StGenevieve" />
<hasSugar rdf:resource="#Dry" />
<hasFlavor rdf:resource="#Moderate" />
</WhiteWine>
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```
<Region rdf:ID="SantaCruzMountainsRegion">
<locatedIn rdf:resource="#CaliforniaRegion" />
</Region>
```

```
<Winery rdf:ID="SaucelitoCanyon" />
```

```
<Zinfandel rdf:ID="SaucelitoCanyonZinfandel">
<locatedIn rdf:resource="#ArroyoGrandeRegion" />
<hasMaker rdf:resource="#SaucelitoCanyon" />
<hasSugar rdf:resource="#Dry" />
<hasFlavor rdf:resource="#Moderate" />
<hasBody rdf:resource="#Medium" />
</Zinfandel>
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<Zinfandel rdf:ID="SaucelitoCanyonZinfandel1998">
<locatedIn rdf:resource="#ArroyoGrandeRegion" />
<hasVintageYear rdf:resource="#Year1998" />
<hasMaker rdf:resource="#SaucelitoCanyon" />
<hasSugar rdf:resource="#Dry" />
<hasFlavor rdf:resource="#Moderate" />
<hasBody rdf:resource="#Medium" />
</Zinfandel>
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```
<Region rdf:ID="SauterneRegion">
<locatedIn rdf:resource="#BordeauxRegion" />
</Region>
```

```
<WineGrape rdf:ID="SauvignonBlancGrape" />
```

```
<Winery rdf:ID="SchlossRothermel" />
```

```
<SweetRiesling rdf:ID="SchlossRothermelTrochenbierenausleseRiesling">
<locatedIn rdf:resource="#GermanyRegion" />
<hasMaker rdf:resource="#SchlossRothermel" />
<hasSugar rdf:resource="#Sweet" />
<hasFlavor rdf:resource="#Strong" />
<hasBody rdf:resource="#Full" />
</SweetRiesling>
```

```
<Winery rdf:ID="SchlossVolrad" />
```

```
<SweetRiesling rdf:ID="SchlossVolradTrochenbierenausleseRiesling">
<locatedIn rdf:resource="#GermanyRegion" />
<hasMaker rdf:resource="#SchlossVolrad" />
<hasSugar rdf:resource="#Sweet" />
<hasFlavor rdf:resource="#Moderate" />
<hasBody rdf:resource="#Full" />
</SweetRiesling>
```

```
<Winery rdf:ID="SeanThackrey" />
```

```
<PetiteSyrah rdf:ID="SeanThackreySiriusPetiteSyrah">
<locatedIn rdf:resource="#NapaRegion" />
<hasMaker rdf:resource="#SeanThackrey" />
<hasSugar rdf:resource="#Dry" />
<hasFlavor rdf:resource="#Strong" />
<hasBody rdf:resource="#Full" />
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```
</PetiteSyrah>

<Winery rdf:ID="Selaks" />

<IceWine rdf:ID="SelaksIceWine">
  <locatedIn rdf:resource="#NewZealandRegion" />
  <hasMaker rdf:resource="#Selaks" />
  <hasFlavor rdf:resource="#Moderate" />
  <hasBody rdf:resource="#Medium" />
  <hasColor rdf:resource="#White" />
</IceWine>

<SauvignonBlanc rdf:ID="SelaksSauvignonBlanc">
  <locatedIn rdf:resource="#NewZealandRegion" />
  <hasMaker rdf:resource="#Selaks" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Moderate" />
  <hasBody rdf:resource="#Medium" />
</SauvignonBlanc>

<WineGrape rdf:ID="SemillonGrape" />

<Winery rdf:ID="SevreEtMaine" />

<Muscadet rdf:ID="SevreEtMaineMuscadet">
  <hasMaker rdf:resource="#SevreEtMaine" />
</Muscadet>

<Region rdf:ID="SonomaRegion">
  <locatedIn rdf:resource="#CaliforniaRegion" />
</Region>

<Region rdf:ID="SouthAustraliaRegion">
  <locatedIn rdf:resource="#AustralianRegion" />
</Region>

<Region rdf:ID="StEmilionRegion">
  <locatedIn rdf:resource="#BordeauxRegion" />
</Region>

<Winery rdf:ID="Stonleigh" />

<SauvignonBlanc rdf:ID="StonleighSauvignonBlanc">
  <locatedIn rdf:resource="#NewZealandRegion" />
  <hasMaker rdf:resource="#Stonleigh" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Delicate" />
  <hasBody rdf:resource="#Medium" />
</SauvignonBlanc>

<Winery rdf:ID="Taylor" />

<Port rdf:ID="TaylorPort">
  <hasMaker rdf:resource="#Taylor" />
</Port>

<Region rdf:ID="ToursRegion">
  <locatedIn rdf:resource="#LoireRegion" />
</Region>

<Winery rdf:ID="Ventana" />

<CheninBlanc rdf:ID="VentanaCheninBlanc">
```



```
<locatedIn rdf:resource="#CentralCoastRegion" />
<hasMaker rdf:resource="#Ventana" />
<hasSugar rdf:resource="#OffDry" />
<hasFlavor rdf:resource="#Moderate" />
<hasBody rdf:resource="#Medium" />
</CheninBlanc>
```

```
<Winery rdf:ID="WhitehallLane" />
```

```
<CabernetFranc rdf:ID="WhitehallLaneCabernetFranc">
  <locatedIn rdf:resource="#NapaRegion" />
  <hasMaker rdf:resource="#WhitehallLane" />
  <hasSugar rdf:resource="#Dry" />
  <hasFlavor rdf:resource="#Moderate" />
  <hasBody rdf:resource="#Medium" />
</CabernetFranc>
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```
<DessertWine rdf:ID="WhitehallLanePrimavera">
  <locatedIn rdf:resource="#NapaRegion" />
  <hasSugar rdf:resource="#Sweet" />
  <hasFlavor rdf:resource="#Delicate" />
  <hasBody rdf:resource="#Light" />
</DessertWine>
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<owl:AllDifferent>
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<owl:distinctMembers rdf:parseType="Collection">
  <vin:Winery rdf:about="#Bancroft" />
  <vin:Winery rdf:about="#ChateauChevalBlanc" />
  <vin:Winery rdf:about="#ChateauDYchem" />
  <vin:Winery rdf:about="#ChateauDeMeursault" />
  <vin:Winery rdf:about="#ChateauLafiteRothschild" />
  <vin:Winery rdf:about="#ChateauMargauxWinery" />
  <vin:Winery rdf:about="#ChateauMorgon" />
  <vin:Winery rdf:about="#ClosDeLaPoussie" />
  <vin:Winery rdf:about="#ClosDeVougeot" />
  <vin:Winery rdf:about="#CongressSprings" />
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  <vin:Winery rdf:about="#PageMillWinery" />
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  <vin:Winery rdf:about="#SchlossVolrad" />
  <vin:Winery rdf:about="#SeanThackrey" />
  <vin:Winery rdf:about="#Selaks" />
  <vin:Winery rdf:about="#SevreEtMaine" />
  <vin:Winery rdf:about="#StGenevieve" />
```

```
<vin:Winery rdf:about="#Stonleigh" />
<vin:Winery rdf:about="#Taylor" />
<vin:Winery rdf:about="#Ventana" />
<vin:Winery rdf:about="#WhitehallLane" />
</owl:distinctMembers>
</owl:AllDifferent>

</rdf:RDF>
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