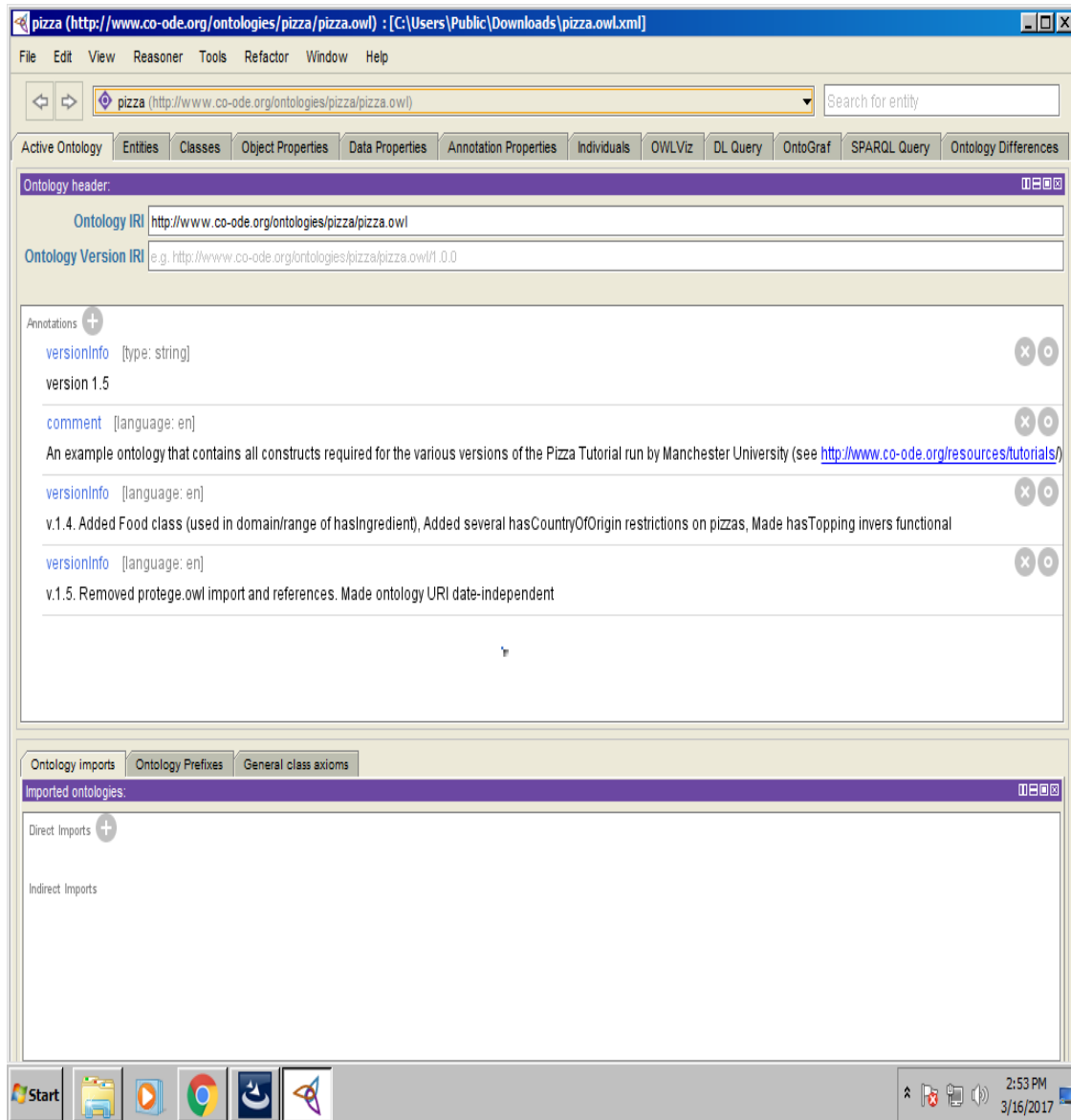


**Experiment No : 5**  
**16MCS0099**  
**Ridhima Dhopte**

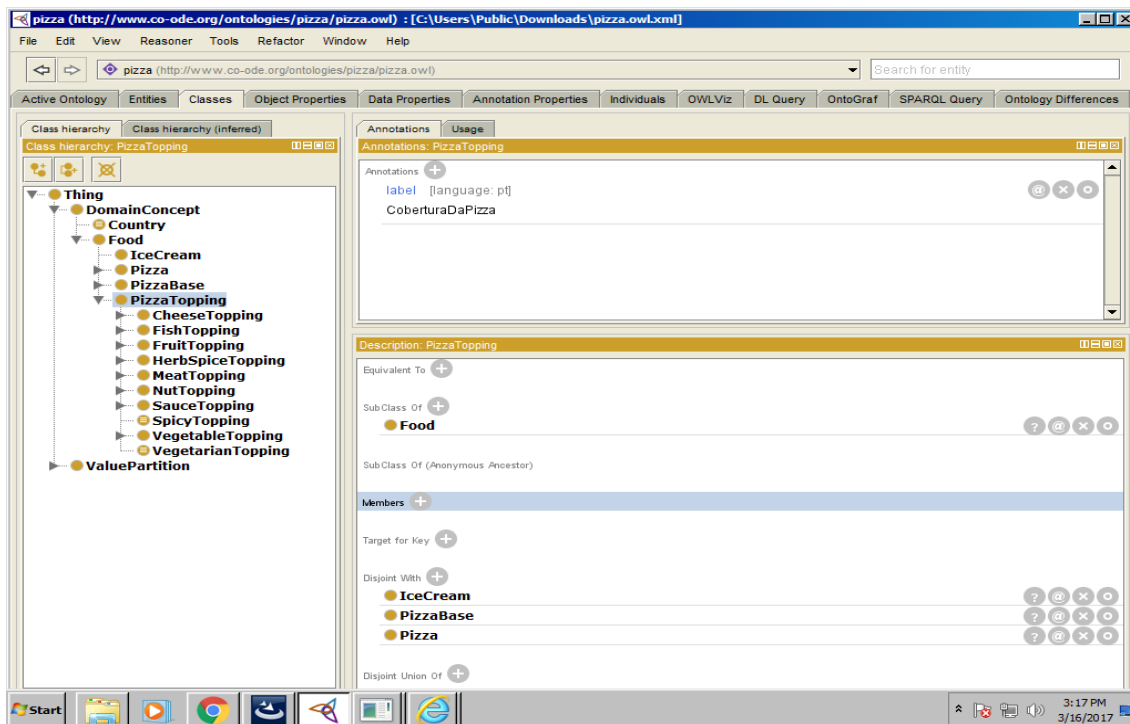
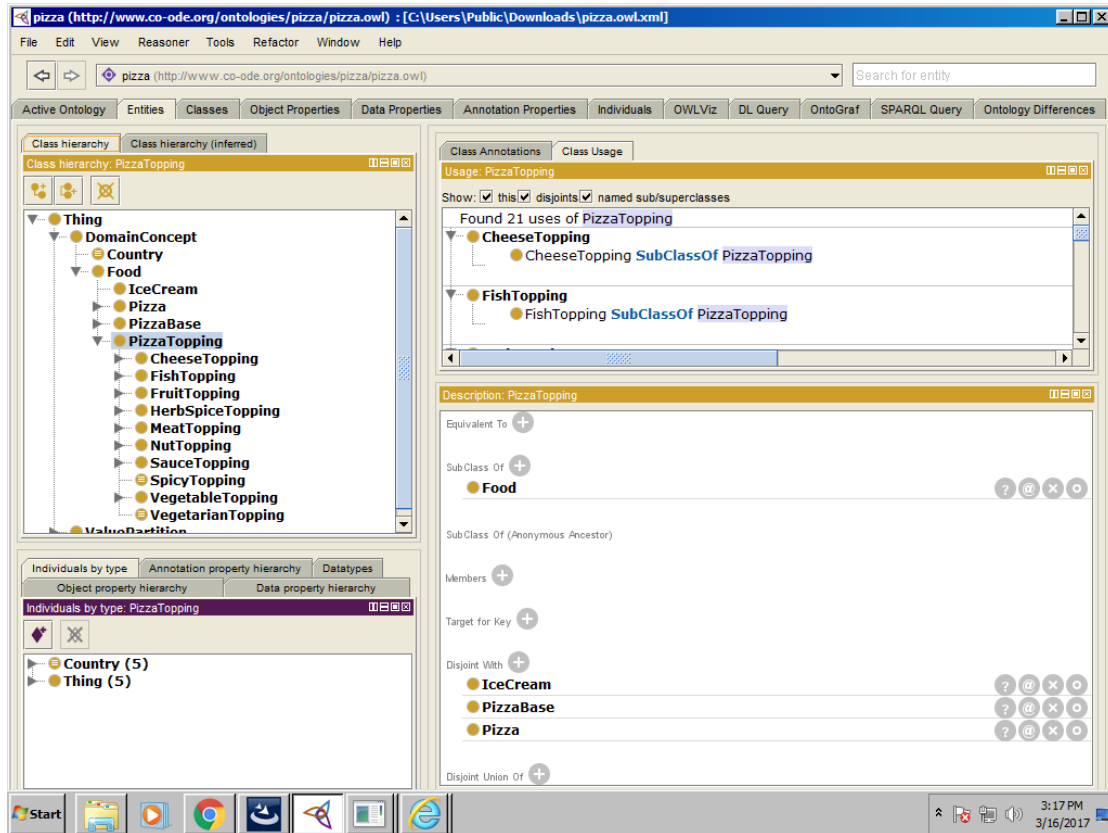
**Creating OWL Ontology using Protege editor.**



# Experiment No : 5

## 16MCS0099

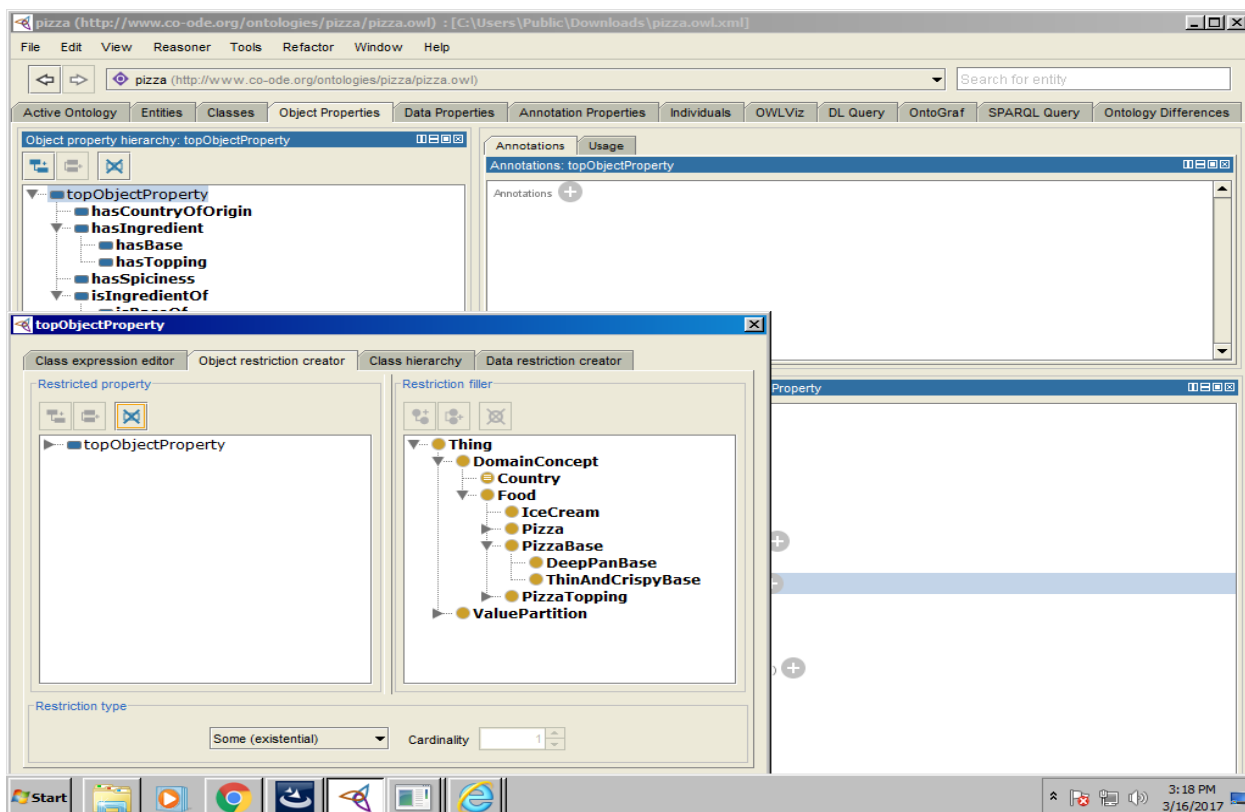
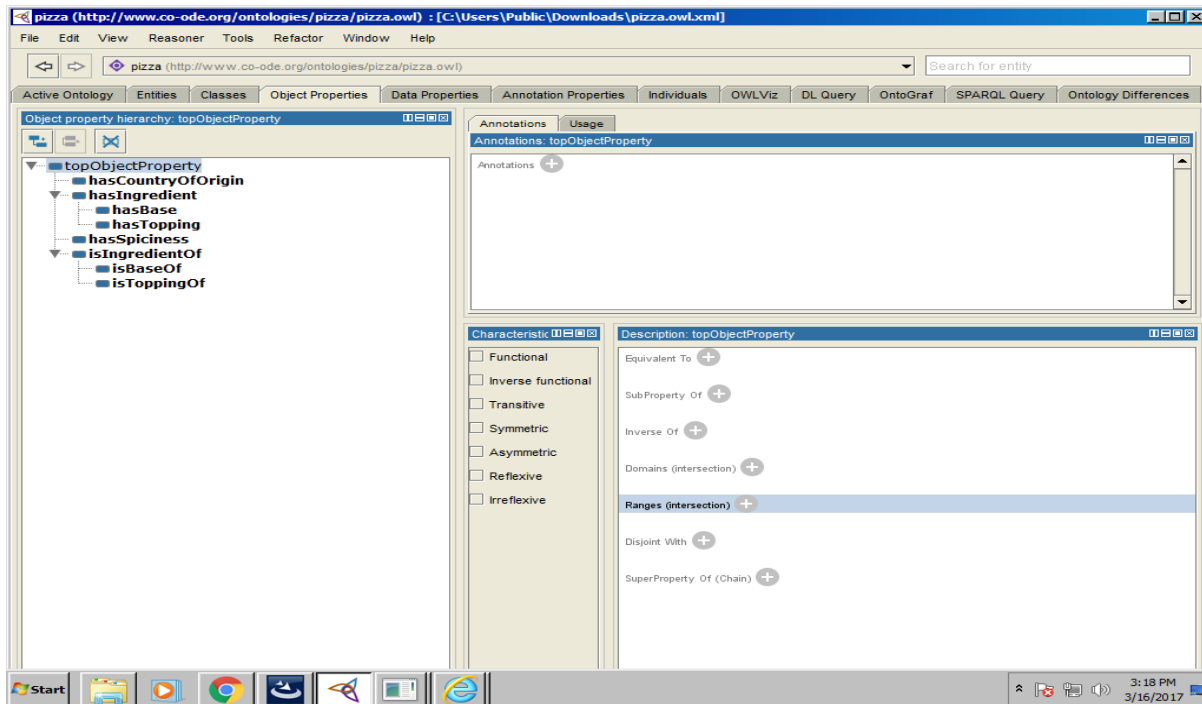
### Ridhima Dhopte



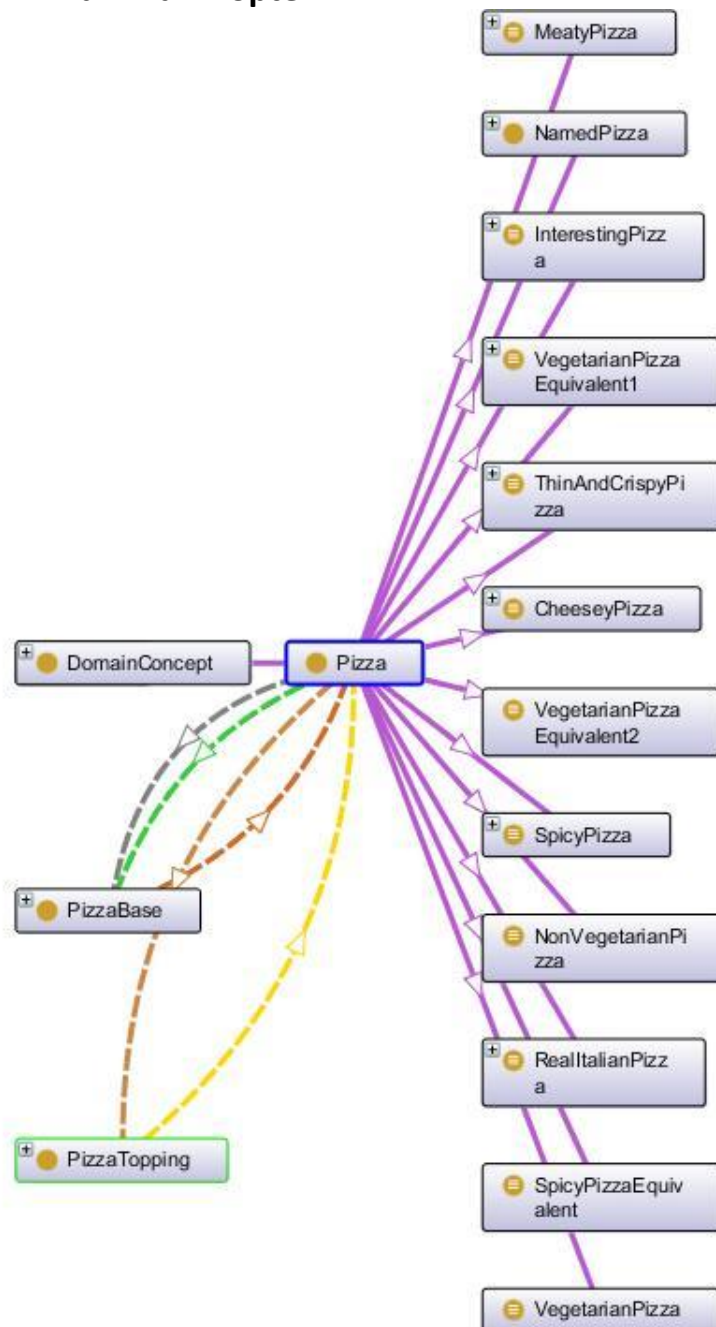
# Experiment No : 5

## 16MCS0099

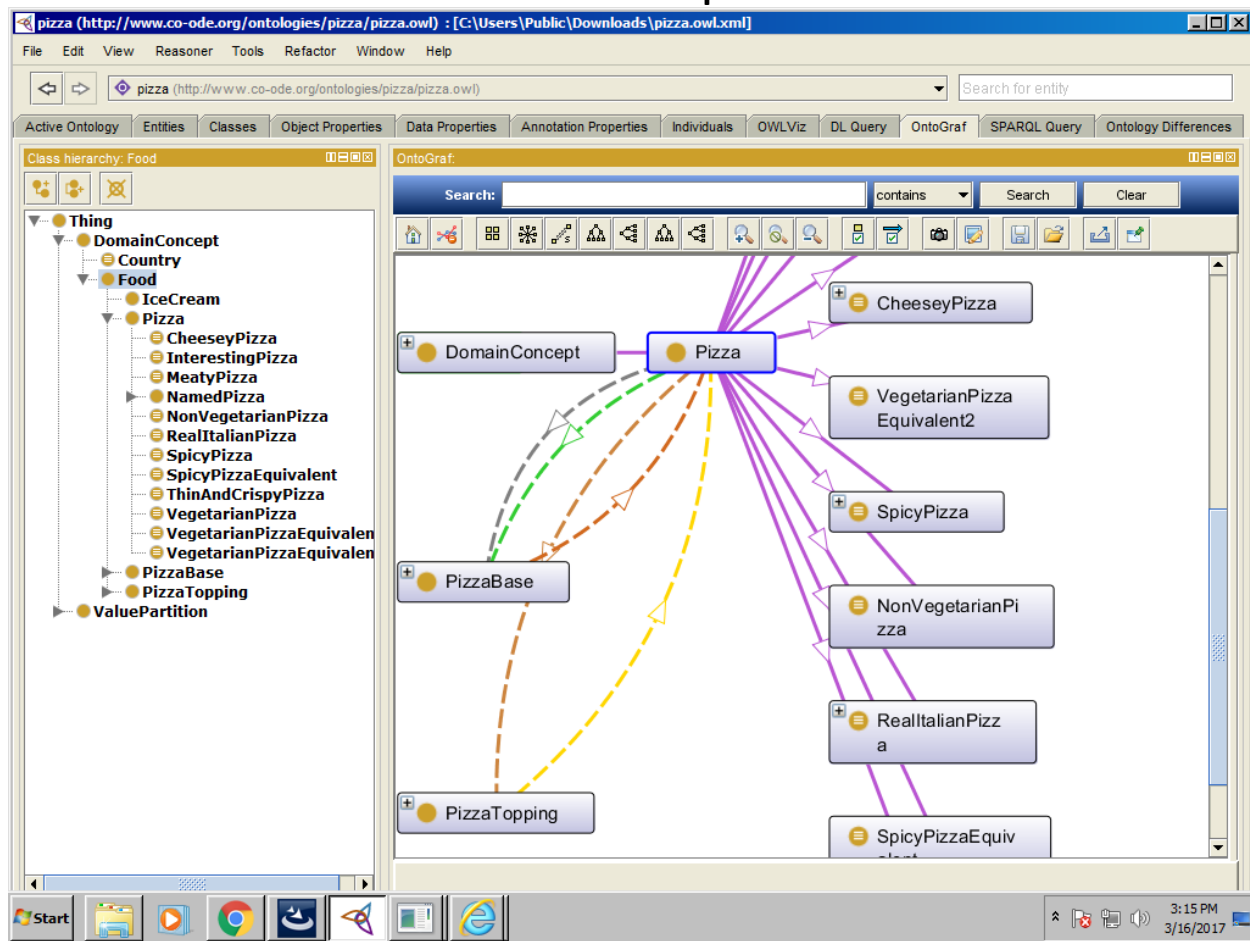
### Ridhima Dhopte



Experiment No : 5  
16MCS0099  
Ridhima Dhopte



Experiment No : 5  
16MCS0099  
Ridhima Dhopte



## Pizza.owl File

```
<?xml version="1.0"?>
<!DOCTYPE RDF>
<rdf:RDF 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#"
xmlns:owl111xml="http://www.w3.org/2006/12/owl111-xml#" xmlns:pizza="http://www.co-ode.org/ontologies/pizza/pizza.owl#" xmlns:owl11="http://www.w3.org/2006/12/owl11#"
xml:base="http://www.co-ode.org/ontologies/pizza/pizza.owl" xmlns="http://www.co-ode.org/ontologies/pizza/pizza.owl#"><owl:Ontology rdf:about=""><rdfs:comment
xml:lang="en">An example ontology that contains all constructs required for the various
versions of the Pizza Tutorial run by Manchester University (see http://www.co-ode.org/resources/tutorials/)</rdfs:comment><owl:versionInfo xml:lang="en">v.1.5. Removed
protege.owl import and references. Made ontology URI date-
independent</owl:versionInfo><owl:versionInfo
rdf:datatype="http://www.w3.org/2001/XMLSchema#string">version
```

## Experiment No : 5

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1.5</owl:versionInfo><owl:versionInfo xml:lang="en">v.1.4. Added Food class (used in domain/range of hasIngredient), Added several hasCountryOfOrigin restrictions on pizzas, Made hasTopping invers functional</owl:versionInfo></owl:Ontology>

<!-- // // // Object Properties //  
// -->

<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#hasBase -->

<owl:ObjectProperty rdf:about="#hasBase"><rdf:type  
rdf:resource="http://www.w3.org/2002/07/owl#InverseFunctionalProperty"/><rdf:type  
rdf:resource="http://www.w3.org/2002/07/owl#FunctionalProperty"/><rdfs:subPropertyOf  
rdf:resource="#hasIngredient"/><rdfs:range rdf:resource="#PizzaBase"/><rdfs:domain  
rdf:resource="#Pizza"/><owl:inverseOf rdf:resource="#isBaseOf"/></owl:ObjectProperty>

<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#hasCountryOfOrigin -->

<owl:ObjectProperty rdf:about="#hasCountryOfOrigin"/>

<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#hasIngredient -->

<owl:ObjectProperty rdf:about="#hasIngredient"><rdf:type  
rdf:resource="http://www.w3.org/2002/07/owl#TransitiveProperty"/><rdfs:comment  
xml:lang="en">NB Transitive - the ingredients of ingredients are ingredients of the  
whole</rdfs:comment><owl:inverseOf rdf:resource="#isIngredientOf"/><rdfs:domain  
rdf:resource="#Food"/><rdfs:range rdf:resource="#Food"/></owl:ObjectProperty>

<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#hasSpiciness -->

<owl:ObjectProperty rdf:about="#hasSpiciness"><rdf:type  
rdf:resource="http://www.w3.org/2002/07/owl#FunctionalProperty"/><rdfs:range  
rdf:resource="#Spiciness"/><rdfs:comment xml:lang="en">A property created to be used with  
the ValuePartition - Spiciness.</rdfs:comment></owl:ObjectProperty>

<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#hasTopping -->

<owl:ObjectProperty rdf:about="#hasTopping"><rdf:type  
rdf:resource="http://www.w3.org/2002/07/owl#InverseFunctionalProperty"/><rdfs:comment  
xml:lang="en">Note that hasTopping is inverse functional because isToppingOf is  
functional</rdfs:comment><rdfs:domain rdf:resource="#Pizza"/><rdfs:subPropertyOf  
rdf:resource="#hasIngredient"/><rdfs:range rdf:resource="#PizzaTopping"/><owl:inverseOf  
rdf:resource="#isToppingOf"/></owl:ObjectProperty>

<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#isBaseOf -->

<owl:ObjectProperty rdf:about="#isBaseOf"><rdf:type  
rdf:resource="http://www.w3.org/2002/07/owl#InverseFunctionalProperty"/><rdf:type  
rdf:resource="http://www.w3.org/2002/07/owl#FunctionalProperty"/><rdfs:range  
rdf:resource="#Pizza"/><rdfs:domain rdf:resource="#PizzaBase"/><rdfs:subPropertyOf  
rdf:resource="#isIngredientOf"/></owl:ObjectProperty>

<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#isIngredientOf -->

<owl:ObjectProperty rdf:about="#isIngredientOf"><rdf:type  
rdf:resource="http://www.w3.org/2002/07/owl#TransitiveProperty"/><rdfs:domain  
rdf:resource="#Food"/><rdfs:comment xml:lang="en">The inverse property tree to  
hasIngredient - all subproperties and attributes of the properties should reflect those under  
hasIngredient.</rdfs:comment><rdfs:range rdf:resource="#Food"/></owl:ObjectProperty>

<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#isToppingOf -->

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```
<owl:ObjectProperty rdf:about="#isToppingOf"><rdf:type
rdf:resource="http://www.w3.org/2002/07/owl#FunctionalProperty"/><rdfs:subPropertyOf
rdf:resource="#isIngredientOf"/><rdfs:comment xml:lang="en">Any given instance of topping
should only be added to a single pizza (no cheap half-measures on our
pizzas)</rdfs:comment><rdfs:domain rdf:resource="#PizzaTopping"/><rdfs:range
rdf:resource="#Pizza"/></owl:ObjectProperty>
<!-- ////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////// // Classes //
//////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////// -->
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#American -->
<owl:Class rdf:about="#American"><rdfs:label
xml:lang="pt">Americana</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdf:Description
rdf:about="#MozzarellaTopping"/><rdf:Description
rdf:about="#TomatoTopping"/><rdf:Description
rdf:about="#PeperoniSausageTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#NamedPizza"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#PeperoniSausageTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasCountryOfOrigin"/><owl:hasValue
rdf:resource="#America"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#QuattroFormaggi"/><owl:disjointWith
rdf:resource="#AmericanHot"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#AmericanHot -->
<owl:Class rdf:about="#AmericanHot"><rdfs:label
xml:lang="pt">AmericanaPicante</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdf:Description
rdf:about="#MozzarellaTopping"/><rdf:Description
rdf:about="#HotGreenPepperTopping"/><rdf:Description
rdf:about="#JalapenoPepperTopping"/><rdf:Description
rdf:about="#TomatoTopping"/><rdf:Description
rdf:about="#PeperoniSausageTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasCountryOfOrigin"/><owl:hasValue
rdf:resource="#America"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
```



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rdf:resource="#NamedPizza"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#JalapenoPepperTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subCla
ssOf><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#HotGreenPepperTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subCl
assOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#PeperoniSausageTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subCl
assOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#AnchoviesTopping -->
<owl:Class rdf:about="#AnchoviesTopping"><rdfs:label
xml:lang="pt">CoberturaDeAnchovies</rdfs:label><rdfs:subClassOf
rdf:resource="#FishTopping"/><owl:disjointWith
rdf:resource="#PrawnsTopping"/><owl:disjointWith
rdf:resource="#MixedSeafoodTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#ArtichokeTopping -->
<owl:Class rdf:about="#ArtichokeTopping"><rdfs:label
xml:lang="pt">CoberturaDeArtichoke</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:on
Property rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#VegetableTopping"/><owl:disjointWith
rdf:resource="#MushroomTopping"/><owl:disjointWith
rdf:resource="#AsparagusTopping"/><owl:disjointWith
rdf:resource="#LeekTopping"/><owl:disjointWith
rdf:resource="#PetitPoisTopping"/><owl:disjointWith
rdf:resource="#OnionTopping"/><owl:disjointWith
rdf:resource="#SpinachTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#AsparagusTopping -->
<owl:Class rdf:about="#AsparagusTopping"><rdfs:label
xml:lang="pt">CoberturaDeAspargos</rdfs:label><rdfs:subClassOf
rdf:resource="#VegetableTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#PetitPoisTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Cajun -->
<owl:Class rdf:about="#Cajun"><rdfs:label
xml:lang="pt">Cajun</rdfs:label><rdfs:subClassOf
rdf:resource="#NamedPizza"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#PeperonataTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TobascoPepperSauce"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassO
f><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom

```



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rdf:resource="#PrawnsTopping"/></owl:Restriction></rdfs:subClassOf></rdfs:subClassOf></o
wl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#OnionTopping"/></owl:Restriction></rdfs:subClassOf></rdfs:subClassOf></o
wl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf></rdfs:subClassOf></o
wl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdf:Description
rdf:about="#MozzarellaTopping"/><rdf:Description
rdf:about="#TobascoPepperSauce"/><rdf:Description
rdf:about="#PeperonataTopping"/><rdf:Description
rdf:about="#OnionTopping"/><rdf:Description
rdf:about="#PrawnsTopping"/><rdf:Description
rdf:about="#TomatoTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:Rest
riction></rdfs:subClassOf></rdfs:subClassOf></owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#Mushroom"/><owl:disjointWith
rdf:resource="#SloppyGiuseppe"/><owl:disjointWith
rdf:resource="#AmericanHot"/><owl:disjointWith
rdf:resource="#Veneziana"/><owl:disjointWith
rdf:resource="#PolloAdAstra"/><owl:disjointWith
rdf:resource="#Caprina"/><owl:disjointWith rdf:resource="#Giardiniera"/><owl:disjointWith
rdf:resource="#UnclosedPizza"/><owl:disjointWith
rdf:resource="#Siciliana"/><owl:disjointWith rdf:resource="#Margherita"/><owl:disjointWith
rdf:resource="#Rosa"/><owl:disjointWith rdf:resource="#American"/><owl:disjointWith
rdf:resource="#Parmense"/><owl:disjointWith
rdf:resource="#PrinceCarlo"/><owl:disjointWith
rdf:resource="#QuattroFormaggi"/><owl:disjointWith
rdf:resource="#Napoletana"/><owl:disjointWith rdf:resource="#Soho"/><owl:disjointWith
rdf:resource="#Capricciosa"/><owl:disjointWith
rdf:resource="#FourSeasons"/><owl:disjointWith
rdf:resource="#Fiorentina"/><owl:disjointWith
rdf:resource="#FruttiDiMare"/><owl:disjointWith rdf:resource="#LaReine"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#CajunSpiceTopping -->
<owl:Class rdf:about="#CajunSpiceTopping"><rdf:label
xml:lang="pt">CoberturaDeCajun</rdf:label></rdfs:subClassOf></owl:Restriction><owl:Pro
perty rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Hot"/></owl:Restriction></rdfs:subClassOf></rdfs:subClassOf>
rdf:resource="#HerbSpiceTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#CaperTopping -->
<owl:Class rdf:about="#CaperTopping"><rdf:label
xml:lang="pt">CoberturaDeCaper</rdf:label></rdfs:subClassOf>
rdf:resource="#VegetableTopping"/></rdfs:subClassOf></owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom

```

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rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#SpinachTopping"/><owl:disjointWith
rdf:resource="#TomatoTopping"/><owl:disjointWith
rdf:resource="#AsparagusTopping"/><owl:disjointWith
rdf:resource="#MushroomTopping"/><owl:disjointWith
rdf:resource="#LeekTopping"/><owl:disjointWith
rdf:resource="#ArtichokeTopping"/><owl:disjointWith
rdf:resource="#PetitPoisTopping"/><owl:disjointWith
rdf:resource="#OnionTopping"/><owl:disjointWith
rdf:resource="#PepperTopping"/><owl:disjointWith
rdf:resource="#RocketTopping"/><owl:disjointWith
rdf:resource="#OliveTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Capricciosa -->
<owl:Class rdf:about="#Capricciosa"><rdfs:label
xml:lang="pt">Capricciosa</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#CaperTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl
:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl
:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdf:Description
rdf:about="#AnchoviesTopping"/><rdf:Description
rdf:about="#HamTopping"/><rdf:Description
rdf:about="#PeperonataTopping"/><rdf:Description
rdf:about="#TomatoTopping"/><rdf:Description
rdf:about="#OliveTopping"/><rdf:Description rdf:about="#CaperTopping"/><rdf:Description
rdf:about="#MozzarellaTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:
Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#NamedPizza"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#PeperonataTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#OliveTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:
Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#AnchoviesTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#HamTopping"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#AmericanHot"/><owl:disjointWith rdf:resource="#Soho"/><owl:disjointWith
rdf:resource="#American"/><owl:disjointWith
rdf:resource="#FruttiDiMare"/><owl:disjointWith
rdf:resource="#Fiorentina"/><owl:disjointWith
rdf:resource="#QuattroFormaggi"/><owl:disjointWith

```

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rdf:resource="#Parmense"/><owl:disjointWith rdf:resource="#Rosa"/><owl:disjointWith
rdf:resource="#Napoletana"/><owl:disjointWith
rdf:resource="#Margherita"/><owl:disjointWith
rdf:resource="#Veneziana"/><owl:disjointWith rdf:resource="#LaReine"/><owl:disjointWith
rdf:resource="#UnclosedPizza"/><owl:disjointWith
rdf:resource="#SloppyGiuseppe"/><owl:disjointWith
rdf:resource="#Giardiniera"/><owl:disjointWith rdf:resource="#Siciliana"/><owl:disjointWith
rdf:resource="#PolloAdAstra"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Caprina -->
<owl:Class rdf:about="#Caprina"><rdfs:label
xml:lang="pt">Caprina</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#GoatsCheeseTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
f><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#SundriedTomatoTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subCl
assOf rdf:resource="#NamedPizza"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdfs:Description
rdf:about="#GoatsCheeseTopping"/><rdfs:Description
rdf:about="#SundriedTomatoTopping"/><rdfs:Description
rdf:about="#TomatoTopping"/><rdfs:Description
rdf:about="#MozzarellaTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:
Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><o
wl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#Rosa"/><owl:disjointWith rdf:resource="#Siciliana"/><owl:disjointWith
rdf:resource="#PolloAdAstra"/><owl:disjointWith
rdf:resource="#Margherita"/><owl:disjointWith
rdf:resource="#QuattroFormaggi"/><owl:disjointWith
rdf:resource="#UnclosedPizza"/><owl:disjointWith
rdf:resource="#LaReine"/><owl:disjointWith rdf:resource="#Veneziana"/><owl:disjointWith
rdf:resource="#American"/><owl:disjointWith
rdf:resource="#Napoletana"/><owl:disjointWith
rdf:resource="#FruttiDiMare"/><owl:disjointWith
rdf:resource="#Capricciosa"/><owl:disjointWith
rdf:resource="#Parmense"/><owl:disjointWith rdf:resource="#Mushroom"/><owl:disjointWith
rdf:resource="#Fiorentina"/><owl:disjointWith
rdf:resource="#PrinceCarlo"/><owl:disjointWith rdf:resource="#Soho"/><owl:disjointWith
rdf:resource="#SloppyGiuseppe"/><owl:disjointWith
rdf:resource="#Giardiniera"/><owl:disjointWith rdf:resource="#AmericanHot"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#CheeseTopping -->

```

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```
<owl:Class rdf:about="#CheeseTopping"><rdfs:label
xml:lang="pt">CoberturaDeQueijo</rdfs:label><rdfs:subClassOf
rdf:resource="#PizzaTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#CheeseyPizza -->
<owl:Class rdf:about="#CheeseyPizza"><rdfs:label
xml:lang="pt">PizzaComQueijo</rdfs:label><owl:equivalentClass><owl:Class><owl:intersection
onOf rdf:parseType="Collection"><rdfs:Description
rdf:about="#Pizza"/><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#CheeseTopping"/></owl:Restriction></owl:intersectionOf></owl:Class><owl:
equivalentClass><rdfs:comment xml:lang="en">Any pizza that has at least 1 cheese
topping.</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#CheeseyVegetableTopping -->
<owl:Class rdf:about="#CheeseyVegetableTopping"><rdfs:label
xml:lang="pt">CoberturaDeQueijoComVegetais</rdfs:label><rdfs:subClassOf
rdf:resource="#CheeseTopping"/><rdfs:subClassOf
rdf:resource="#VegetableTopping"/><rdfs:comment xml:lang="en">This class will be
inconsistent. This is because we have given it 2 disjoint parents, which means it could never have
any members (as nothing can simultaneously be a CheeseTopping and a VegetableTopping). NB
Called ProbeInconsistentTopping in the ProtegeOWL Tutorial.</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#ChickenTopping -->
<owl:Class rdf:about="#ChickenTopping"><rdfs:label
xml:lang="pt">CoberturaDeFrango</rdfs:label><rdfs:subClassOf
rdf:resource="#MeatTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#HamTopping"/><owl:disjointWith
rdf:resource="#HotSpicedBeefTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Country -->
<owl:Class rdf:about="#Country"><rdfs:label
xml:lang="pt">Pais</rdfs:label><owl:equivalentClass><owl:Class><owl:intersectionOf
rdf:parseType="Collection"><rdfs:Description
rdf:about="#DomainConcept"/><owl:Class><owl:oneOf
rdf:parseType="Collection"><rdfs:Description rdf:about="#America"/><rdfs:Description
rdf:about="#Italy"/><rdfs:Description rdf:about="#Germany"/><rdfs:Description
rdf:about="#England"/><rdfs:Description
rdf:about="#France"/></owl:oneOf></owl:Class><owl:intersectionOf></owl:Class></owl:equ
ivalentClass><rdfs:comment xml:lang="en">A class that is equivalent to the set of individuals
that are described in the enumeration - ie Countries can only be either America, England, France,
Germany or Italy and nothing else. Note that these individuals have been asserted to be
allDifferent from each other.</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#DeepPanBase -->
<owl:Class rdf:about="#DeepPanBase"><rdfs:label
xml:lang="pt">BaseEspessa</rdfs:label><rdfs:subClassOf
rdf:resource="#PizzaBase"/></owl:Class>
```



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Ridhima Dhopte

```
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#DomainConcept -->
<owl:Class rdf:about="#DomainConcept"><owl:disjointWith
rdf:resource="#ValuePartition"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Fiorentina -->
<owl:Class rdf:about="#Fiorentina"><rdfs:label
xml:lang="pt">Fiorentina</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#SpinachTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#OliveTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#ParmesanTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdf:Description
rdf:about="#MozzarellaTopping"/><rdf:Description
rdf:about="#OliveTopping"/><rdf:Description
rdf:about="#TomatoTopping"/><rdf:Description
rdf:about="#SpinachTopping"/><rdf:Description
rdf:about="#ParmesanTopping"/><rdf:Description
rdf:about="#GarlicTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#GarlicTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#NamedPizza"/><owl:disjointWith
rdf:resource="#Margherita"/><owl:disjointWith
rdf:resource="#QuattroFormaggi"/><owl:disjointWith
rdf:resource="#AmericanHot"/><owl:disjointWith rdf:resource="#Rosa"/><owl:disjointWith
rdf:resource="#SloppyGiuseppe"/><owl:disjointWith
rdf:resource="#Veneziana"/><owl:disjointWith
rdf:resource="#Napoletana"/><owl:disjointWith
rdf:resource="#Giardiniera"/><owl:disjointWith
rdf:resource="#UnclosedPizza"/><owl:disjointWith rdf:resource="#Soho"/><owl:disjointWith
rdf:resource="#FruttiDiMare"/><owl:disjointWith
rdf:resource="#PolloAdAstra"/><owl:disjointWith
rdf:resource="#American"/><owl:disjointWith rdf:resource="#Siciliana"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#FishTopping -->
<owl:Class rdf:about="#FishTopping"><rdfs:label
xml:lang="pt">CoberturaDePeixe</rdfs:label><rdfs:subClassOf
rdf:resource="#PizzaTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
```

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```
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#CheeseTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Food -->
<owl:Class rdf:about="#Food"><rdfs:subClassOf
rdf:resource="#DomainConcept"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#FourCheesesTopping -->
<owl:Class rdf:about="#FourCheesesTopping"><rdfs:label
xml:lang="pt">CoberturaQuatroQueijos</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:
onProperty rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#CheeseTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#FourSeasons -->
<owl:Class rdf:about="#FourSeasons"><rdfs:label
xml:lang="pt">QuatroQueijos</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onPropert
y rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MushroomTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#CaperTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl
:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#NamedPizza"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#PeperoniSausageTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subCl
assOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdf:Description
rdf:about="#MozzarellaTopping"/><rdf:Description
rdf:about="#PeperoniSausageTopping"/><rdf:Description
rdf:about="#AnchoviesTopping"/><rdf:Description
rdf:about="#CaperTopping"/><rdf:Description rdf:about="#OliveTopping"/><rdf:Description
rdf:about="#MushroomTopping"/><rdf:Description
rdf:about="#TomatoTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:Rest
riction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#OliveTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:
Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#AnchoviesTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#FruttiDiMare"/><owl:disjointWith
rdf:resource="#Napoletana"/><owl:disjointWith
rdf:resource="#AmericanHot"/><owl:disjointWith
rdf:resource="#Caprina"/><owl:disjointWith rdf:resource="#Veneziana"/><owl:disjointWith
rdf:resource="#Mushroom"/><owl:disjointWith
rdf:resource="#Giardiniera"/><owl:disjointWith rdf:resource="#Rosa"/><owl:disjointWith
```



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Ridhima Dhopte

```
rdf:resource="#PrinceCarlo"/><owl:disjointWith
rdf:resource="#PolloAdAstra"/><owl:disjointWith
rdf:resource="#LaReine"/><owl:disjointWith rdf:resource="#Parmense"/><owl:disjointWith
rdf:resource="#Siciliana"/><owl:disjointWith rdf:resource="#Capricciosa"/><owl:disjointWith
rdf:resource="#SloppyGiuseppe"/><owl:disjointWith
rdf:resource="#Soho"/><owl:disjointWith rdf:resource="#UnclosedPizza"/><owl:disjointWith
rdf:resource="#American"/><owl:disjointWith
rdf:resource="#Margherita"/><owl:disjointWith
rdf:resource="#QuattroFormaggi"/><owl:disjointWith
rdf:resource="#Fiorentina"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#FruitTopping -->
<owl:Class rdf:about="#FruitTopping"><rdfs:label
xml:lang="pt">CoberturaDeFrutas</rdfs:label><rdfs:subClassOf
rdf:resource="#PizzaTopping"/><owl:disjointWith
rdf:resource="#MeatTopping"/><owl:disjointWith
rdf:resource="#HerbSpiceTopping"/><owl:disjointWith
rdf:resource="#FishTopping"/><owl:disjointWith
rdf:resource="#CheeseTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#FruttiDiMare -->
<owl:Class rdf:about="#FruttiDiMare"><rdfs:label
xml:lang="pt">FrutosDoMar</rdfs:label><rdfs:subClassOf
rdf:resource="#NamedPizza"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MixedSeafoodTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdfs:Description
rdf:about="#MixedSeafoodTopping"/><rdfs:Description
rdf:about="#TomatoTopping"/><rdfs:Description
rdf:about="#GarlicTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#GarlicTopping"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#American"/><owl:disjointWith
rdf:resource="#Margherita"/><owl:disjointWith
rdf:resource="#AmericanHot"/><owl:disjointWith
rdf:resource="#Napoletana"/><owl:disjointWith rdf:resource="#Soho"/><owl:disjointWith
rdf:resource="#PolloAdAstra"/><owl:disjointWith rdf:resource="#Rosa"/><owl:disjointWith
rdf:resource="#Siciliana"/><owl:disjointWith
rdf:resource="#QuattroFormaggi"/><owl:disjointWith
rdf:resource="#SloppyGiuseppe"/><owl:disjointWith
rdf:resource="#UnclosedPizza"/><owl:disjointWith
rdf:resource="#Giardiniera"/><owl:disjointWith rdf:resource="#Veneziana"/></owl:Class>
```

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Ridhima Dhopte

```
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#GarlicTopping -->
<owl:Class rdf:about="#GarlicTopping"><rdfs:label
xml:lang="pt">CoberturaDeAlho</rdfs:label><rdfs:subClassOf
rdf:resource="#VegetableTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Medium"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#ArtichokeTopping"/><owl:disjointWith
rdf:resource="#CaperTopping"/><owl:disjointWith
rdf:resource="#LeekTopping"/><owl:disjointWith
rdf:resource="#PepperTopping"/><owl:disjointWith
rdf:resource="#OnionTopping"/><owl:disjointWith
rdf:resource="#MushroomTopping"/><owl:disjointWith
rdf:resource="#OliveTopping"/><owl:disjointWith
rdf:resource="#SpinachTopping"/><owl:disjointWith
rdf:resource="#AsparagusTopping"/><owl:disjointWith
rdf:resource="#RocketTopping"/><owl:disjointWith
rdf:resource="#PetitPoisTopping"/><owl:disjointWith
rdf:resource="#TomatoTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Giardiniera -->
<owl:Class rdf:about="#Giardiniera"><rdfs:label
xml:lang="pt">Giardiniera</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#SlicedTomatoTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClass
Of><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#LeekTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#NamedPizza"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#PeperonataTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#OliveTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:
Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdf:Description rdf:about="#TomatoTopping"/><rdf:Description
rdf:about="#MushroomTopping"/><rdf:Description
rdf:about="#LeekTopping"/><rdf:Description
rdf:about="#SlicedTomatoTopping"/><rdf:Description
rdf:about="#PetitPoisTopping"/><rdf:Description
rdf:about="#OliveTopping"/><rdf:Description
rdf:about="#PeperonataTopping"/><rdf:Description
rdf:about="#MozzarellaTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:
Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#PetitPoisTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
```

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```
owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MushroomTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#American"/><owl:disjointWith rdf:resource="#Rosa"/><owl:disjointWith
rdf:resource="#QuattroFormaggi"/><owl:disjointWith
rdf:resource="#AmericanHot"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#GoatsCheeseTopping -->
<owl:Class rdf:about="#GoatsCheeseTopping"><rdfs:label
xml:lang="pt">CoberturaDeQueijoDeCabra</rdfs:label><rdfs:subClassOf
rdf:resource="#CheeseTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#ParmesanTopping"/><owl:disjointWith
rdf:resource="#GorgonzolaTopping"/><owl:disjointWith
rdf:resource="#FourCheesesTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#GorgonzolaTopping -->
<owl:Class rdf:about="#GorgonzolaTopping"><rdfs:label
xml:lang="pt">CoberturaDeGorgonzola</rdfs:label><rdfs:subClassOf
rdf:resource="#CheeseTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#ParmesanTopping"/><owl:disjointWith
rdf:resource="#FourCheesesTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#GreenPepperTopping -->
<owl:Class rdf:about="#GreenPepperTopping"><rdfs:label
xml:lang="pt">CoberturaDePimentaoVerde</rdfs:label><rdfs:subClassOf
rdf:resource="#PepperTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#HamTopping -->
<owl:Class rdf:about="#HamTopping"><rdfs:label
xml:lang="pt">CoberturaDePresunto</rdfs:label><rdfs:subClassOf
rdf:resource="#MeatTopping"/><owl:disjointWith
rdf:resource="#HotSpicedBeefTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#HerbSpiceTopping -->
<owl:Class rdf:about="#HerbSpiceTopping"><rdfs:label
xml:lang="pt">CoberturaDeErvas</rdfs:label><rdfs:subClassOf
rdf:resource="#PizzaTopping"/><owl:disjointWith
rdf:resource="#CheeseTopping"/><owl:disjointWith
rdf:resource="#MeatTopping"/><owl:disjointWith
rdf:resource="#FishTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Hot -->
<owl:Class rdf:about="#Hot"><rdfs:label xml:lang="pt">Picante</rdfs:label><rdfs:subClassOf
rdf:resource="#Spiciness"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#HotGreenPepperTopping -->
```

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```
<owl:Class rdf:about="#HotGreenPepperTopping"><rdfs:label
xml:lang="pt">CoberturaDePimentaoVerdePicante</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Hot"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#GreenPepperTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#HotSpicedBeefTopping -->
<owl:Class rdf:about="#HotSpicedBeefTopping"><rdfs:label
xml:lang="pt">CoberturaDeBifePicante</rdfs:label><rdfs:subClassOf
rdf:resource="#MeatTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Hot"/></owl:Restriction></rdfs:subClassOf></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#IceCream -->
<owl:Class rdf:about="#IceCream"><rdfs:label
xml:lang="pt">Sorvete</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#FruitTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#Food"/><owl:disjointWith rdf:resource="#PizzaBase"/><owl:disjointWith
rdf:resource="#PizzaTopping"/><owl:disjointWith rdf:resource="#Pizza"/><rdfs:comment
xml:lang="en">A class to demonstrate mistakes made with setting a property domain. The
property hasTopping has a domain of Pizza. This means that the reasoner can infer that all
individuals using the hasTopping property must be of type Pizza. Because of the restriction on
this class, all members of IceCream must use the hasTopping property, and therefore must also
be members of Pizza. However, Pizza and IceCream are disjoint, so this causes an inconsistency.
If they were not disjoint, IceCream would be inferred to be a subclass of
Pizza.</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#InterestingPizza -->
<owl:Class rdf:about="#InterestingPizza"><rdfs:label
xml:lang="pt">PizzaInteressante</rdfs:label><owl:equivalentClass><owl:Class><owl:intersection
onOf rdf:parseType="Collection"><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:minCardinality
rdf:datatype="http://www.w3.org/2001/XMLSchema#nonNegativeInteger">3</owl:minCardi
nality></owl:Restriction><rdfs:Description
rdf:about="#Pizza"/></owl:intersectionOf></owl:Class></owl:equivalentClass><rdfs:comment
xml:lang="en">Any pizza that has at least 3 toppings. Note that this is a cardinality constraint on
the hasTopping property and NOT a qualified cardinality constraint (QCR). A QCR would
specify from which class the members in this relationship must be. eg has at least 3 toppings
from PizzaTopping. This is currently not supported in OWL.</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#JalapenoPepperTopping -->
<owl:Class rdf:about="#JalapenoPepperTopping"><rdfs:label
xml:lang="pt">CoberturaDeJalapeno</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onP
roperty rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Hot"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#PepperTopping"/><owl:disjointWith
rdf:resource="#GreenPepperTopping"/><owl:disjointWith
```



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```

rdf:resource="#SweetPepperTopping"/><owl:disjointWith
rdf:resource="#PeperonataTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#LaReine -->
<owl:Class rdf:about="#LaReine"><rdfs:label
xml:lang="pt">LaReine</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#HamTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:
Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdfs:Description
rdf:about="#MozzarellaTopping"/><rdfs:Description
rdf:about="#OliveTopping"/><rdfs:Description
rdf:about="#MushroomTopping"/><rdfs:Description
rdf:about="#TomatoTopping"/><rdfs:Description
rdf:about="#HamTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:Restrict
ion></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#OliveTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:
Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MushroomTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:
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rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
rdf:resource="#NamedPizza"/><owl:disjointWith
rdf:resource="#QuattroFormaggi"/><owl:disjointWith
rdf:resource="#Fiorentina"/><owl:disjointWith rdf:resource="#American"/><owl:disjointWith
rdf:resource="#PolloAdAstra"/><owl:disjointWith
rdf:resource="#Giardiniera"/><owl:disjointWith
rdf:resource="#SloppyGiuseppe"/><owl:disjointWith
rdf:resource="#Soho"/><owl:disjointWith rdf:resource="#Rosa"/><owl:disjointWith
rdf:resource="#Veneziana"/><owl:disjointWith rdf:resource="#Siciliana"/><owl:disjointWith
rdf:resource="#FruttiDiMare"/><owl:disjointWith
rdf:resource="#AmericanHot"/><owl:disjointWith
rdf:resource="#UnclosedPizza"/><owl:disjointWith
rdf:resource="#Margherita"/><owl:disjointWith rdf:resource="#Napoletana"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#LeekTopping -->
<owl:Class rdf:about="#LeekTopping"><rdfs:label
xml:lang="pt">CoberturaDeLeek</rdfs:label><rdfs:subClassOf
rdf:resource="#VegetableTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#AsparagusTopping"/><owl:disjointWith
rdf:resource="#PetitPoisTopping"/><owl:disjointWith
rdf:resource="#SpinachTopping"/></owl:Class>

```

## Experiment No : 5

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Ridhima Dhopte

```
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Margherita -->
<owl:Class rdf:about="#Margherita"><rdfs:label
xml:lang="pt">Margherita</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#NamedPizza"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdfs:Description
rdf:about="#MozzarellaTopping"/><rdfs:Description
rdf:about="#TomatoTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:Rest
riction></rdfs:subClassOf><owl:disjointWith rdf:resource="#American"/><owl:disjointWith
rdf:resource="#Giardiniera"/><owl:disjointWith rdf:resource="#Rosa"/><owl:disjointWith
rdf:resource="#Siciliana"/><owl:disjointWith
rdf:resource="#AmericanHot"/><owl:disjointWith
rdf:resource="#UnclosedPizza"/><owl:disjointWith
rdf:resource="#SloppyGiuseppe"/><owl:disjointWith
rdf:resource="#QuattroFormaggi"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#MeatTopping -->
<owl:Class rdf:about="#MeatTopping"><rdfs:label
xml:lang="pt">CoberturaDeCarne</rdfs:label><rdfs:subClassOf
rdf:resource="#PizzaTopping"/><owl:disjointWith
rdf:resource="#CheeseTopping"/><owl:disjointWith
rdf:resource="#FishTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#MeatyPizza -->
<owl:Class rdf:about="#MeatyPizza"><rdfs:label
xml:lang="pt">PizzaDeCarne</rdfs:label><owl:equivalentClass><owl:Class><owl:intersection
Of rdf:parseType="Collection"><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MeatTopping"/></owl:Restriction><rdfs:Description
rdf:about="#Pizza"/></owl:intersectionOf></owl:Class></owl:equivalentClass><rdfs:comment
xml:lang="en">Any pizza that has at least one meat topping</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Medium -->
<owl:Class rdf:about="#Medium"><rdfs:label
xml:lang="pt">Media</rdfs:label><rdfs:subClassOf
rdf:resource="#Spiciness"/><owl:disjointWith rdf:resource="#Hot"/><owl:disjointWith
rdf:resource="#Mild"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Mild -->
<owl:Class rdf:about="#Mild"><rdfs:label
xml:lang="pt">NaoPicante</rdfs:label><rdfs:subClassOf
rdf:resource="#Spiciness"/><owl:disjointWith rdf:resource="#Hot"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#MixedSeafoodTopping -->
```



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Ridhima Dhopte

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<owl:Class rdf:about="#MixedSeafoodTopping"><rdfs:label
xml:lang="pt">CoberturaDeFrutosDoMarMistos</rdfs:label><rdfs:subClassOf
rdf:resource="#FishTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#MozzarellaTopping -->
<owl:Class rdf:about="#MozzarellaTopping"><rdfs:label
xml:lang="pt">CoberturaDeMozzarella</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:or
nProperty rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#CheeseTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasCountryOfOrigin"/><owl:hasValue
rdf:resource="#Italy"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#ParmesanTopping"/><owl:disjointWith
rdf:resource="#FourCheesesTopping"/><owl:disjointWith
rdf:resource="#GoatsCheeseTopping"/><owl:disjointWith
rdf:resource="#GorgonzolaTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Mushroom -->
<owl:Class rdf:about="#Mushroom"><rdfs:label
xml:lang="pt">Cogumelo</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MushroomTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdfs:Description
rdf:about="#MushroomTopping"/><rdfs:Description
rdf:about="#TomatoTopping"/><rdfs:Description
rdf:about="#MozzarellaTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:
Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:
Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#NamedPizza"/><owl:disjointWith
rdf:resource="#FruttiDiMare"/><owl:disjointWith
rdf:resource="#Parmense"/><owl:disjointWith
rdf:resource="#QuattroFormaggi"/><owl:disjointWith
rdf:resource="#AmericanHot"/><owl:disjointWith
rdf:resource="#Giardiniera"/><owl:disjointWith
rdf:resource="#SloppyGiuseppe"/><owl:disjointWith
rdf:resource="#Siciliana"/><owl:disjointWith rdf:resource="#Capricciosa"/><owl:disjointWith
rdf:resource="#UnclosedPizza"/><owl:disjointWith
rdf:resource="#PrinceCarlo"/><owl:disjointWith
rdf:resource="#Veneziana"/><owl:disjointWith rdf:resource="#Fiorentina"/><owl:disjointWith
rdf:resource="#American"/><owl:disjointWith
rdf:resource="#PolloAdAstra"/><owl:disjointWith rdf:resource="#Rosa"/><owl:disjointWith
```

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Ridhima Dhopte

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rdf:resource="#LaReine"/><owl:disjointWith rdf:resource="#Margherita"/><owl:disjointWith
rdf:resource="#Soho"/><owl:disjointWith rdf:resource="#Napoletana"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#MushroomTopping -->
<owl:Class rdf:about="#MushroomTopping"><rdfs:label
xml:lang="pt">CoberturaDeCogumelo</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#VegetableTopping"/><owl:disjointWith
rdf:resource="#LeekTopping"/><owl:disjointWith
rdf:resource="#SpinachTopping"/><owl:disjointWith
rdf:resource="#AsparagusTopping"/><owl:disjointWith
rdf:resource="#PetitPoisTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#NamedPizza -->
<owl:Class rdf:about="#NamedPizza"><rdfs:label
xml:lang="pt">PizzaComUmNome</rdfs:label><rdfs:subClassOf
rdf:resource="#Pizza"/><rdfs:comment xml:lang="en">A pizza that can be found on a pizza
menu</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Napoletana -->
<owl:Class rdf:about="#Napoletana"><rdfs:label
xml:lang="pt">Napoletana</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#CaperTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:
:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:
:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
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rdf:about="#AnchoviesTopping"/><rdf:Description
rdf:about="#TomatoTopping"/><rdf:Description
rdf:about="#OliveTopping"/><rdf:Description
rdf:about="#MozzarellaTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:
Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#OliveTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#NamedPizza"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasCountryOfOrigin"/><owl:hasValue
rdf:resource="#Italy"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restrictio
n><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#AnchoviesTopping"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#QuattroFormaggi"/><owl:disjointWith
rdf:resource="#SloppyGiuseppe"/><owl:disjointWith
rdf:resource="#AmericanHot"/><owl:disjointWith
rdf:resource="#UnclosedPizza"/><owl:disjointWith

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Ridhima Dhopte

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rdf:resource="#Margherita"/><owl:disjointWith
rdf:resource="#American"/><owl:disjointWith rdf:resource="#Rosa"/><owl:disjointWith
rdf:resource="#Giardiniera"/><owl:disjointWith rdf:resource="#Siciliana"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#NonVegetarianPizza -->
<owl:Class rdf:about="#NonVegetarianPizza"><rdfs:label
xml:lang="pt">PizzaNaoVegetariana</rdfs:label><owl:equivalentClass><owl:Class><owl:inter
sectionOf rdf:parseType="Collection"><owl:Class><owl:complementOf
rdf:resource="#VegetarianPizza"/></owl:Class><rdfs:Description
rdf:about="#Pizza"/></owl:intersectionOf></owl:Class></owl:equivalentClass><owl:disjointWi
th rdf:resource="#VegetarianPizza"/><rdfs:comment xml:lang="en">Any Pizza that is not a
VegetarianPizza</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#NutTopping -->
<owl:Class rdf:about="#NutTopping"><rdfs:label
xml:lang="pt">CoberturaDeCastanha</rdfs:label><rdfs:subClassOf
rdf:resource="#PizzaTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#FruitTopping"/><owl:disjointWith
rdf:resource="#HerbSpiceTopping"/><owl:disjointWith
rdf:resource="#MeatTopping"/><owl:disjointWith
rdf:resource="#VegetableTopping"/><owl:disjointWith
rdf:resource="#CheeseTopping"/><owl:disjointWith
rdf:resource="#FishTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#OliveTopping -->
<owl:Class rdf:about="#OliveTopping"><rdfs:label
xml:lang="pt">CoberturaDeAzeitona</rdfs:label><rdfs:subClassOf
rdf:resource="#VegetableTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#SpinachTopping"/><owl:disjointWith
rdf:resource="#LeekTopping"/><owl:disjointWith
rdf:resource="#AsparagusTopping"/><owl:disjointWith
rdf:resource="#PetitPoisTopping"/><owl:disjointWith
rdf:resource="#TomatoTopping"/><owl:disjointWith
rdf:resource="#ArtichokeTopping"/><owl:disjointWith
rdf:resource="#OnionTopping"/><owl:disjointWith
rdf:resource="#MushroomTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#OnionTopping -->
<owl:Class rdf:about="#OnionTopping"><rdfs:label
xml:lang="pt">CoberturaDeCebola</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onPr
operty rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Medium"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#VegetableTopping"/><owl:disjointWith
rdf:resource="#PetitPoisTopping"/><owl:disjointWith
rdf:resource="#AsparagusTopping"/><owl:disjointWith

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Ridhima Dhopte

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rdf:resource="#MushroomTopping"/><owl:disjointWith
rdf:resource="#SpinachTopping"/><owl:disjointWith
rdf:resource="#LeekTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#ParmaHamTopping -->
<owl:Class rdf:about="#ParmaHamTopping"><rdfs:label
xml:lang="pt">CoberturaDePrezuntoParma</rdfs:label><rdfs:subClassOf
rdf:resource="#HamTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Parmense -->
<owl:Class rdf:about="#Parmense"><rdfs:label
xml:lang="pt">Parmense</rdfs:label><rdfs:subClassOf
rdf:resource="#NamedPizza"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#ParmesanTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
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rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdf:Description rdf:about="#HamTopping"/><rdf:Description
rdf:about="#ParmesanTopping"/><rdf:Description
rdf:about="#TomatoTopping"/><rdf:Description
rdf:about="#AsparagusTopping"/><rdf:Description
rdf:about="#MozzarellaTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:
Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#HamTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:
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rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#AsparagusTopping"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#SloppyGiuseppe"/><owl:disjointWith
rdf:resource="#UnclosedPizza"/><owl:disjointWith
rdf:resource="#QuattroFormaggi"/><owl:disjointWith
rdf:resource="#LaReine"/><owl:disjointWith rdf:resource="#Veneziana"/><owl:disjointWith
rdf:resource="#Giardiniera"/><owl:disjointWith rdf:resource="#Soho"/><owl:disjointWith
rdf:resource="#American"/><owl:disjointWith rdf:resource="#Siciliana"/><owl:disjointWith
rdf:resource="#AmericanHot"/><owl:disjointWith rdf:resource="#Rosa"/><owl:disjointWith
rdf:resource="#Napoletana"/><owl:disjointWith
rdf:resource="#Margherita"/><owl:disjointWith
rdf:resource="#PolloAdAstra"/><owl:disjointWith
rdf:resource="#Fiorentina"/><owl:disjointWith rdf:resource="#FruttiDiMare"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#ParmesanTopping -->
<owl:Class rdf:about="#ParmesanTopping"><rdfs:label
xml:lang="pt">CoberturaDeParmesao</rdfs:label><rdfs:subClassOf
```



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Ridhima Dhopte

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rdf:resource="#CheeseTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#FourCheesesTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#PeperonataTopping -->
<owl:Class rdfs:about="#PeperonataTopping"><rdfs:label
xml:lang="pt">CoberturaPeperonata</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onP
roperty rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Medium"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#PepperTopping"/><owl:disjointWith
rdf:resource="#SweetPepperTopping"/><owl:disjointWith
rdf:resource="#GreenPepperTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#PeperoniSausageTopping -->
<owl:Class rdfs:about="#PeperoniSausageTopping"><rdfs:label
xml:lang="pt">CoberturaDeCalabreza</rdfs:label><rdfs:subClassOf
rdf:resource="#MeatTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Medium"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#HamTopping"/><owl:disjointWith
rdf:resource="#HotSpicedBeefTopping"/><owl:disjointWith
rdf:resource="#ChickenTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#PepperTopping -->
<owl:Class rdfs:about="#PepperTopping"><rdfs:label
xml:lang="pt">CoberturaDePimentao</rdfs:label><rdfs:subClassOf
rdf:resource="#VegetableTopping"/><owl:disjointWith
rdf:resource="#ArtichokeTopping"/><owl:disjointWith
rdf:resource="#MushroomTopping"/><owl:disjointWith
rdf:resource="#RocketTopping"/><owl:disjointWith
rdf:resource="#OnionTopping"/><owl:disjointWith
rdf:resource="#SpinachTopping"/><owl:disjointWith
rdf:resource="#OliveTopping"/><owl:disjointWith
rdf:resource="#PetitPoisTopping"/><owl:disjointWith
rdf:resource="#TomatoTopping"/><owl:disjointWith
rdf:resource="#LeekTopping"/><owl:disjointWith
rdf:resource="#AsparagusTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#PetitPoisTopping -->
<owl:Class rdfs:about="#PetitPoisTopping"><rdfs:label
xml:lang="pt">CoberturaPetitPois</rdfs:label><rdfs:subClassOf
rdf:resource="#VegetableTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#PineKernels -->
<owl:Class rdfs:about="#PineKernels"><rdfs:label
xml:lang="pt">CoberturaPineKernels</rdfs:label><rdfs:subClassOf
rdf:resource="#NutTopping"/></owl:Class>

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Ridhima Dhopte

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<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Pizza -->
<owl:Class rdf:about="#Pizza"><rdfs:label
xml:lang="en">Pizza</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasBase"/><owl:someValuesFrom
rdf:resource="#PizzaBase"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#Food"/><owl:disjointWith rdf:resource="#PizzaTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#PizzaBase -->
<owl:Class rdf:about="#PizzaBase"><rdfs:label
xml:lang="pt">BaseDaPizza</rdfs:label><rdfs:subClassOf
rdf:resource="#Food"/><owl:disjointWith rdf:resource="#PizzaTopping"/><owl:disjointWith
rdf:resource="#Pizza"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#PizzaTopping -->
<owl:Class rdf:about="#PizzaTopping"><rdfs:label
xml:lang="pt">CoberturaDaPizza</rdfs:label><rdfs:subClassOf
rdf:resource="#Food"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#PolloAdAstra -->
<owl:Class rdf:about="#PolloAdAstra"><rdfs:label
xml:lang="pt">PolloAdAstra</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#CajunSpiceTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#RedOnionTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#SweetPepperTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassO
f><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><o
wl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
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rdf:about="#TomatoTopping"/><rdf:Description
rdf:about="#SweetPepperTopping"/><rdf:Description
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ction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty
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rdf:resource="#ChickenTopping"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#Siciliana"/><owl:disjointWith rdf:resource="#Margherita"/><owl:disjointWith
rdf:resource="#Giardiniera"/><owl:disjointWith
```



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Ridhima Dhopte

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rdf:resource="#AmericanHot"/><owl:disjointWith
rdf:resource="#American"/><owl:disjointWith
rdf:resource="#Napoletana"/><owl:disjointWith
rdf:resource="#QuattroFormaggi"/><owl:disjointWith
rdf:resource="#Rosa"/><owl:disjointWith rdf:resource="#UnclosedPizza"/><owl:disjointWith
rdf:resource="#SloppyGiuseppe"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#PrawnsTopping -->
<owl:Class rdf:about="#PrawnsTopping"><rdfs:label
xml:lang="pt">CoberturaDeCamarao</rdfs:label><rdfs:subClassOf
rdf:resource="#FishTopping"/><owl:disjointWith
rdf:resource="#MixedSeafoodTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#PrinceCarlo -->
<owl:Class rdf:about="#PrinceCarlo"><rdfs:label
xml:lang="pt">CoberturaPrinceCarlo</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:on
Property rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#ParmesanTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#LeekTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:
Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#RosemaryTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#NamedPizza"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdf:Description
rdf:about="#ParmesanTopping"/><rdf:Description
rdf:about="#LeekTopping"/><rdf:Description
rdf:about="#RosemaryTopping"/><rdf:Description
rdf:about="#TomatoTopping"/><rdf:Description
rdf:about="#MozzarellaTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:
Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#SloppyGiuseppe"/><owl:disjointWith
rdf:resource="#Fiorentina"/><owl:disjointWith
rdf:resource="#AmericanHot"/><owl:disjointWith
rdf:resource="#QuattroFormaggi"/><owl:disjointWith
rdf:resource="#Giardiniera"/><owl:disjointWith
rdf:resource="#Veneziana"/><owl:disjointWith rdf:resource="#Rosa"/><owl:disjointWith
rdf:resource="#Siciliana"/><owl:disjointWith rdf:resource="#Parmense"/><owl:disjointWith
rdf:resource="#Soho"/><owl:disjointWith rdf:resource="#UnclosedPizza"/><owl:disjointWith
rdf:resource="#American"/><owl:disjointWith rdf:resource="#LaReine"/><owl:disjointWith
rdf:resource="#PolloAdAstra"/><owl:disjointWith
rdf:resource="#Napoletana"/><owl:disjointWith
```

## Experiment No : 5

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Ridhima Dhopte

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rdf:resource="#FruttiDiMare"/><owl:disjointWith
rdf:resource="#Capricciosa"/><owl:disjointWith rdf:resource="#Margherita"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#QuattroFormaggi -->
<owl:Class rdf:about="#QuattroFormaggi"><rdfs:label
xml:lang="pt">QuatroQueijos</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onPropert
y rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdf:Description rdf:about="#TomatoTopping"/><rdf:Description
rdf:about="#FourCheesesTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl
:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#FourCheesesTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassO
f rdf:resource="#NamedPizza"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#AmericanHot"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#RealItalianPizza -->
<owl:Class rdf:about="#RealItalianPizza"><rdfs:label
xml:lang="pt">PizzaItalianaReal</rdfs:label><owl:equivalentClass><owl:Class><owl:intersecti
onOf rdf:parseType="Collection"><rdf:Description
rdf:about="#Pizza"/><owl:Restriction><owl:onProperty
rdf:resource="#hasCountryOfOrigin"/><owl:hasValue
rdf:resource="#Italy"/></owl:Restriction></owl:intersectionOf></owl:Class></owl:equivalentC
lass><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasBase"/><owl:allValuesFrom
rdf:resource="#ThinAndCrispyBase"/></owl:Restriction></rdfs:subClassOf><rdfs:comment
xml:lang="en">This defined class has conditions that are part of the definition: ie any Pizza that
has the country of origin, Italy is a RealItalianPizza. It also has conditions that merely describe
the members - that all RealItalianPizzas must only have ThinAndCrispy bases. In essence, all
pizzas from Italy must have ThinAndCrispy bases.</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#RedOnionTopping -->
<owl:Class rdf:about="#RedOnionTopping"><rdfs:label
xml:lang="pt">CoberturaDeCebolaVermelha</rdfs:label><rdfs:subClassOf
rdf:resource="#OnionTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#RocketTopping -->
<owl:Class rdf:about="#RocketTopping"><rdfs:label
xml:lang="pt">CoberturaRocket</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onPrope
rty rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Medium"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#VegetableTopping"/><owl:disjointWith
rdf:resource="#SpinachTopping"/><owl:disjointWith
rdf:resource="#OliveTopping"/><owl:disjointWith
rdf:resource="#AsparagusTopping"/><owl:disjointWith
rdf:resource="#MushroomTopping"/><owl:disjointWith
rdf:resource="#OnionTopping"/><owl:disjointWith
rdf:resource="#ArtichokeTopping"/><owl:disjointWith

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Ridhima Dhopte

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rdf:resource="#PetitPoisTopping"/><owl:disjointWith
rdf:resource="#LeekTopping"/><owl:disjointWith
rdf:resource="#TomatoTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Rosa -->
<owl:Class rdf:about="#Rosa"><rdfs:label
xml:lang="pt">Rosa</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdfs:Description
rdf:about="#MozzarellaTopping"/><rdfs:Description
rdf:about="#TomatoTopping"/><rdfs:Description
rdf:about="#GorgonzolaTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:
Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#GorgonzolaTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#NamedPizza"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#American"/><owl:disjointWith
rdf:resource="#AmericanHot"/><owl:disjointWith
rdf:resource="#QuattroFormaggi"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#RosemaryTopping -->
<owl:Class rdf:about="#RosemaryTopping"><rdfs:label
xml:lang="pt">CoberturaRosemary</rdfs:label><rdfs:subClassOf
rdf:resource="#HerbSpiceTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#CajunSpiceTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#SauceTopping -->
<owl:Class rdf:about="#SauceTopping"><rdfs:label
xml:lang="pt">CoberturaEmMolho</rdfs:label><rdfs:subClassOf
rdf:resource="#PizzaTopping"/><owl:disjointWith
rdf:resource="#NutTopping"/><owl:disjointWith
rdf:resource="#MeatTopping"/><owl:disjointWith
rdf:resource="#CheeseTopping"/><owl:disjointWith
rdf:resource="#FishTopping"/><owl:disjointWith
rdf:resource="#HerbSpiceTopping"/><owl:disjointWith
rdf:resource="#FruitTopping"/><owl:disjointWith
rdf:resource="#VegetableTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Siciliana -->
<owl:Class rdf:about="#Siciliana"><rdfs:label
xml:lang="pt">Siciliana</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><o
```

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<owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#HamTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:
Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#AnchoviesTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#ArtichokeTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#GarlicTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl
:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#OliveTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#NamedPizza"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdf:Description
rdf:about="#AnchoviesTopping"/><rdf:Description
rdf:about="#OliveTopping"/><rdf:Description
rdf:about="#ArtichokeTopping"/><rdf:Description
rdf:about="#TomatoTopping"/><rdf:Description
rdf:about="#HamTopping"/><rdf:Description
rdf:about="#MozzarellaTopping"/><rdf:Description
rdf:about="#GarlicTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:Restri
ction></rdfs:subClassOf><owl:disjointWith rdf:resource="#Giardiniera"/><owl:disjointWith
rdf:resource="#Rosa"/><owl:disjointWith rdf:resource="#UnclosedPizza"/><owl:disjointWith
rdf:resource="#American"/><owl:disjointWith
rdf:resource="#SloppyGiuseppe"/><owl:disjointWith
rdf:resource="#QuattroFormaggi"/><owl:disjointWith
rdf:resource="#AmericanHot"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#SlicedTomatoTopping -->
<owl:Class rdf:about="#SlicedTomatoTopping"><rdfs:label
xml:lang="pt">CoberturaDeTomateFatiado</rdfs:label><rdfs:subClassOf
rdf:resource="#TomatoTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#SundriedTomatoTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#SloppyGiuseppe -->
<owl:Class rdf:about="#SloppyGiuseppe"><rdfs:label
xml:lang="pt">SloppyGiuseppe</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onPrope
rty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#NamedPizza"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#GreenPepperTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassO
f><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
```



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Ridhima Dhopte

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rdf:resource="#OnionTopping"/></owl:Restriction></rdfs:subClassOf><owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdf:Description rdf:about="#TomatoTopping"/><rdf:Description
rdf:about="#GreenPepperTopping"/><rdf:Description
rdf:about="#HotSpicedBeefTopping"/><rdf:Description
rdf:about="#OnionTopping"/><rdf:Description
rdf:about="#MozzarellaTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:
Restriction></rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#HotSpicedBeefTopping"/></owl:Restriction></rdfs:subClassOf><owl:disjoint
With rdf:resource="#QuattroFormaggi"/><owl:disjointWith
rdf:resource="#Giardiniera"/><owl:disjointWith
rdf:resource="#AmericanHot"/><owl:disjointWith rdf:resource="#Rosa"/><owl:disjointWith
rdf:resource="#American"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Soho -->
<owl:Class rdf:about="#Soho"><rdfs:label
xml:lang="pt">Soho</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#OliveTopping"/></owl:Restriction></rdfs:subClassOf><owl:
Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#GarlicTopping"/></owl:Restriction></rdfs:subClassOf><owl:
Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#ParmesanTopping"/></owl:Restriction></rdfs:subClassOf>
<owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#NamedPizza"/></rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf>
<owl:Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#RocketTopping"/></owl:Restriction></rdfs:subClassOf>
<owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdf:Description rdf:about="#GarlicTopping"/><rdf:Description
rdf:about="#MozzarellaTopping"/><rdf:Description
rdf:about="#RocketTopping"/><rdf:Description
rdf:about="#TomatoTopping"/><rdf:Description
rdf:about="#OliveTopping"/><rdf:Description
rdf:about="#ParmesanTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:R
estriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#SloppyGiuseppe"/><owl:disjointWith
rdf:resource="#UnclosedPizza"/><owl:disjointWith
rdf:resource="#American"/><owl:disjointWith

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Ridhima Dhopte

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rdf:resource="#Napoletana"/><owl:disjointWith
rdf:resource="#PolloAdAstra"/><owl:disjointWith
rdf:resource="#AmericanHot"/><owl:disjointWith
rdf:resource="#Giardiniera"/><owl:disjointWith
rdf:resource="#Margherita"/><owl:disjointWith
rdf:resource="#QuattroFormaggi"/><owl:disjointWith
rdf:resource="#Rosa"/><owl:disjointWith rdf:resource="#Siciliana"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Spiciness -->
<owl:Class rdf:about="#Spiciness"><rdfs:label
xml:lang="pt">Tempero</rdfs:label><owl:equivalentClass><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdf:Description rdf:about="#Hot"/><rdf:Description
rdf:about="#Mild"/><rdf:Description
rdf:about="#Medium"/></owl:unionOf></owl:Class></owl:equivalentClass><rdfs:subClassOf
rdf:resource="#ValuePartition"/><rdfs:comment xml:lang="en">A ValuePartition that
describes only values from Hot, Medium or Mild. NB Subclasses can themselves be divided up
into further partitions.</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#SpicyPizza -->
<owl:Class rdf:about="#SpicyPizza"><rdfs:label
xml:lang="pt">PizzaTemperada</rdfs:label><owl:equivalentClass><owl:Class><owl:intersectionOf
rdf:parseType="Collection"><rdf:Description
rdf:about="#Pizza"/><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#SpicyTopping"/></owl:Restriction></owl:intersectionOf></owl:Class></owl:equivalentClass><rdfs:comment xml:lang="en">Any pizza that has a spicy topping is a
SpicyPizza</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#SpicyPizzaEquivalent -->
<owl:Class rdf:about="#SpicyPizzaEquivalent"><rdfs:label
xml:lang="pt">PizzaTemperadaEquivalent</rdfs:label><owl:equivalentClass><owl:Class><owl:intersectionOf
rdf:parseType="Collection"><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom><owl:Class><owl:intersectionOf
rdf:parseType="Collection"><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Hot"/></owl:Restriction><rdf:Description
rdf:about="#PizzaTopping"/></owl:intersectionOf></owl:Class></owl:someValuesFrom></owl:Restriction><rdf:Description
rdf:about="#Pizza"/></owl:intersectionOf></owl:Class></owl:equivalentClass><rdfs:comment
xml:lang="en">An alternative definition for the SpicyPizza which does away with needing a
definition of SpicyTopping and uses a slightly more complicated restriction: Pizzas that have at
least one topping that is both a PizzaTopping and has spiciness hot are members of this
class.</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#SpicyTopping -->
<owl:Class rdf:about="#SpicyTopping"><rdfs:label
xml:lang="pt">CoberturaTemperada</rdfs:label><owl:equivalentClass><owl:Class><owl:intersectionOf
rdf:parseType="Collection"><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
```



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Ridhima Dhopte

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rdf:resource="#Hot"/></owl:Restriction><rdf:Description
rdf:about="#PizzaTopping"/></owl:intersectionOf></owl:Class></owl:equivalentClass><rdfs:comment xml:lang="en">Any pizza topping that has spiciness Hot</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#SpinachTopping -->
<owl:Class rdf:about="#SpinachTopping"><rdfs:label
xml:lang="pt">CoberturaDeEspinafre</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:on
Property rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#VegetableTopping"/><owl:disjointWith
rdf:resource="#AsparagusTopping"/><owl:disjointWith
rdf:resource="#PetitPoisTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#SultanaTopping -->
<owl:Class rdf:about="#SultanaTopping"><rdfs:label
xml:lang="pt">CoberturaSultana</rdfs:label><rdfs:subClassOf
rdf:resource="#FruitTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Medium"/></owl:Restriction></rdfs:subClassOf></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#SundriedTomatoTopping -->
<owl:Class rdf:about="#SundriedTomatoTopping"><rdfs:label
xml:lang="pt">CoberturaDeTomateRessecadoAoSol</rdfs:label><rdfs:subClassOf
rdf:resource="#TomatoTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#SweetPepperTopping -->
<owl:Class rdf:about="#SweetPepperTopping"><rdfs:label
xml:lang="pt">CoberturaDePimentaoDoce</rdfs:label><rdfs:subClassOf
rdf:resource="#PepperTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#GreenPepperTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#ThinAndCrispyBase -->
<owl:Class rdf:about="#ThinAndCrispyBase"><rdfs:label
xml:lang="pt">BaseFinaEQuebradica</rdfs:label><rdfs:subClassOf
rdf:resource="#PizzaBase"/><owl:disjointWith rdf:resource="#DeepPanBase"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#ThinAndCrispyPizza -->
<owl:Class
rdf:about="#ThinAndCrispyPizza"><owl:equivalentClass><owl:Class><owl:intersectionOf
rdf:parseType="Collection"><owl:Restriction><owl:onProperty
rdf:resource="#hasBase"/><owl:allValuesFrom
rdf:resource="#ThinAndCrispyBase"/></owl:Restriction><rdf:Description
rdf:about="#Pizza"/></owl:intersectionOf></owl:Class></owl:equivalentClass></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#TobascoPepperSauce -->
<owl:Class rdf:about="#TobascoPepperSauce"><rdfs:label
xml:lang="pt">MolhoTobascoPepper</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:on
Property rdf:resource="#hasSpiciness"/><owl:someValuesFrom
```

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rdf:resource="#Hot"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#SauceTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#TomatoTopping -->
<owl:Class rdf:about="#TomatoTopping"><rdfs:label
xml:lang="pt">CoberturaDeTomate</rdfs:label><rdfs:subClassOf
rdf:resource="#VegetableTopping"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasSpiciness"/><owl:someValuesFrom
rdf:resource="#Mild"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#LeekTopping"/><owl:disjointWith
rdf:resource="#MushroomTopping"/><owl:disjointWith
rdf:resource="#ArtichokeTopping"/><owl:disjointWith
rdf:resource="#OnionTopping"/><owl:disjointWith
rdf:resource="#SpinachTopping"/><owl:disjointWith
rdf:resource="#PetitPoisTopping"/><owl:disjointWith
rdf:resource="#AsparagusTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#UnclosedPizza -->
<owl:Class rdf:about="#UnclosedPizza"><rdfs:label
xml:lang="pt">PizzaAberta</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#NamedPizza"/><owl:disjointWith
rdf:resource="#QuattroFormaggi"/><owl:disjointWith
rdf:resource="#Rosa"/><owl:disjointWith rdf:resource="#AmericanHot"/><owl:disjointWith
rdf:resource="#American"/><owl:disjointWith
rdf:resource="#Giardiniera"/><owl:disjointWith
rdf:resource="#SloppyGiuseppe"/><rdfs:comment
rdf:datatype="http://www.w3.org/2001/XMLSchema#string">An unclosed Pizza cannot be
inferred to be either a VegetarianPizza or a NonVegetarianPizza, because it might have other
toppings.</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#ValuePartition -->
<owl:Class rdf:about="#ValuePartition"><rdfs:label
xml:lang="pt">ValorDaParticao</rdfs:label><rdfs:comment
rdf:datatype="http://www.w3.org/2001/XMLSchema#string">A ValuePartition is a pattern
that describes a restricted set of classes from which a property can be associated. The parent
class is used in restrictions, and the covering axiom means that only members of the subclasses
may be used as values. The possible subclasses cannot be extended without updating the
ValuePartition class.</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#VegetableTopping -->
<owl:Class rdf:about="#VegetableTopping"><rdfs:label
xml:lang="pt">CoberturaDeVegetais</rdfs:label><rdfs:subClassOf
rdf:resource="#PizzaTopping"/><owl:disjointWith
rdf:resource="#MeatTopping"/><owl:disjointWith
rdf:resource="#HerbSpiceTopping"/><owl:disjointWith
rdf:resource="#FruitTopping"/><owl:disjointWith
```

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rdf:resource="#CheeseTopping"/><owl:disjointWith
rdf:resource="#FishTopping"/></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#VegetarianPizza -->
<owl:Class rdf:about="#VegetarianPizza"><rdfs:label
xml:lang="pt">PizzaVegetariana</rdfs:label><owl:equivalentClass><owl:Class><owl:intersectionOf
rdf:parseType="Collection"><owl:Class><owl:complementOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MeatTopping"/></owl:Restriction></owl:complementOf></owl:Class><rdfs:De
scription
rdf:about="#Pizza"/><owl:Class><owl:complementOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#FishTopping"/></owl:Restriction></owl:complementOf></owl:Class></owl:int
ersectionOf></owl:Class></owl:equivalentClass><rdfs:comment xml:lang="en">Any pizza that
does not have fish topping and does not have meat topping is a VegetarianPizza. Members of this
class do not need to have any toppings at all.</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#VegetarianPizzaEquivalent1 -->
<owl:Class rdf:about="#VegetarianPizzaEquivalent1"><rdfs:label
xml:lang="pt">PizzaVegetarianaEquivalente1</rdfs:label><owl:equivalentClass><owl:Class><
owl:intersectionOf rdf:parseType="Collection"><rdfs:Description
rdf:about="#Pizza"/><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom
rdf:resource="#VegetarianTopping"/></owl:Restriction></owl:intersectionOf></owl:Class></
owl:equivalentClass><rdfs:comment xml:lang="en">Any pizza that only has vegetarian
toppings or no toppings is a VegetarianPizzaEquiv1. Should be inferred to be equivalent to
VegetarianPizzaEquiv2. Not equivalent to VegetarianPizza because PizzaTopping is not
covering</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#VegetarianPizzaEquivalent2 -->
<owl:Class rdf:about="#VegetarianPizzaEquivalent2"><rdfs:label
xml:lang="pt">PizzaVegetarianaEquivalente2</rdfs:label><owl:equivalentClass><owl:Class><
owl:intersectionOf rdf:parseType="Collection"><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdfs:Description rdf:about="#SauceTopping"/><rdfs:Description
rdf:about="#VegetableTopping"/><rdfs:Description
rdf:about="#FruitTopping"/><rdfs:Description rdf:about="#CheeseTopping"/><rdfs:Description
rdf:about="#HerbSpiceTopping"/><rdfs:Description
rdf:about="#NutTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:Restricti
on><rdfs:Description
rdf:about="#Pizza"/></owl:intersectionOf></owl:Class></owl:equivalentClass><rdfs:comment
xml:lang="en">An alternative to VegetarianPizzaEquiv1 that does not require a definition of
VegetarianTopping. Perhaps more difficult to maintain. Not equivalent to
VegetarianPizza</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#VegetarianTopping -->
<owl:Class rdf:about="#VegetarianTopping"><rdfs:label
xml:lang="pt">CoberturaVegetariana</rdfs:label><owl:equivalentClass><owl:Class><owl:inter

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sectionOf rdf:parseType="Collection"><rdf:Description
rdf:about="#PizzaTopping"/><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdf:Description rdf:about="#SauceTopping"/><rdf:Description
rdf:about="#VegetableTopping"/><rdf:Description
rdf:about="#FruitTopping"/><rdf:Description rdf:about="#CheeseTopping"/><rdf:Description
rdf:about="#HerbSpiceTopping"/><rdf:Description
rdf:about="#NutTopping"/></owl:unionOf></owl:Class></owl:intersectionOf></owl:Class></
owl:equivalentClass><rdfs:comment xml:lang="en">An example of a covering axiom.
VegetarianTopping is equivalent to the union of all toppings in the given axiom.
VegetarianToppings can only be Cheese or Vegetable or....etc.</rdfs:comment></owl:Class>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Veneziana -->
<owl:Class rdf:about="#Veneziana"><rdfs:label
xml:lang="pt">Veneziana</rdfs:label><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#PineKernels"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:R
estriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#MozzarellaTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf>
<owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:allValuesFrom><owl:Class><owl:unionOf
rdf:parseType="Collection"><rdf:Description
rdf:about="#MozzarellaTopping"/><rdf:Description
rdf:about="#CaperTopping"/><rdf:Description rdf:about="#PineKernels"/><rdf:Description
rdf:about="#OliveTopping"/><rdf:Description
rdf:about="#TomatoTopping"/><rdf:Description
rdf:about="#SultanaTopping"/><rdf:Description
rdf:about="#OnionTopping"/></owl:unionOf></owl:Class></owl:allValuesFrom></owl:Restri
ction></rdfs:subClassOf><rdfs:subClassOf
rdf:resource="#NamedPizza"/><rdfs:subClassOf><owl:Restriction><owl:onProperty
rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#OliveTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:
Restriction><owl:onProperty rdf:resource="#hasCountryOfOrigin"/><owl:hasValue
rdf:resource="#Italy"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:Restrictio
n><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#OnionTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:
Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#TomatoTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:
Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#SultanaTopping"/></owl:Restriction></rdfs:subClassOf><rdfs:subClassOf><owl:
Restriction><owl:onProperty rdf:resource="#hasTopping"/><owl:someValuesFrom
rdf:resource="#CaperTopping"/></owl:Restriction></rdfs:subClassOf><owl:disjointWith
rdf:resource="#Giardiniera"/><owl:disjointWith rdf:resource="#Rosa"/><owl:disjointWith
rdf:resource="#Margherita"/><owl:disjointWith rdf:resource="#Siciliana"/><owl:disjointWith
rdf:resource="#PolloAdAstra"/><owl:disjointWith
rdf:resource="#SloppyGiuseppe"/><owl:disjointWith
rdf:resource="#UnclosedPizza"/><owl:disjointWith
```



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rdf:resource="#QuattroFormaggi"/><owl:disjointWith
rdf:resource="#Napoletana"/><owl:disjointWith
rdf:resource="#American"/><owl:disjointWith
rdf:resource="#AmericanHot"/><owl:disjointWith rdf:resource="#Soho"/></owl:Class>
<!-- http://www.w3.org/2002/07/owl#Thing -->
<owl:Class rdf:about="http://www.w3.org/2002/07/owl#Thing"/>
<!-- //////////////////////////////////////// Individuals //
////////////////////////////////////// -->
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#America -->
<Country rdf:about="#America"><rdf:type
rdf:resource="http://www.w3.org/2002/07/owl#Thing"/></Country><rdf:Description><rdf:typ
e rdf:resource="http://www.w3.org/2002/07/owl#AllDifferent"/><owl:distinctMembers
rdf:parseType="Collection"><rdf:Description rdf:about="#America"/><rdf:Description
rdf:about="#Italy"/><rdf:Description rdf:about="#Germany"/><rdf:Description
rdf:about="#England"/><rdf:Description
rdf:about="#France"/></owl:distinctMembers></rdf:Description>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#England -->
<owl:Thing rdf:about="#England"><rdf:type
rdf:resource="#Country"/></owl:Thing><rdf:Description><rdf:type
rdf:resource="http://www.w3.org/2002/07/owl#AllDifferent"/><owl:distinctMembers
rdf:parseType="Collection"><rdf:Description rdf:about="#America"/><rdf:Description
rdf:about="#Italy"/><rdf:Description rdf:about="#Germany"/><rdf:Description
rdf:about="#England"/><rdf:Description
rdf:about="#France"/></owl:distinctMembers></rdf:Description>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#France -->
<Country rdf:about="#France"><rdf:type
rdf:resource="http://www.w3.org/2002/07/owl#Thing"/></Country><rdf:Description><rdf:typ
e rdf:resource="http://www.w3.org/2002/07/owl#AllDifferent"/><owl:distinctMembers
rdf:parseType="Collection"><rdf:Description rdf:about="#America"/><rdf:Description
rdf:about="#Italy"/><rdf:Description rdf:about="#Germany"/><rdf:Description
rdf:about="#England"/><rdf:Description
rdf:about="#France"/></owl:distinctMembers></rdf:Description>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Germany -->
<owl:Thing rdf:about="#Germany"><rdf:type
rdf:resource="#Country"/></owl:Thing><rdf:Description><rdf:type
rdf:resource="http://www.w3.org/2002/07/owl#AllDifferent"/><owl:distinctMembers
rdf:parseType="Collection"><rdf:Description rdf:about="#America"/><rdf:Description
rdf:about="#Italy"/><rdf:Description rdf:about="#Germany"/><rdf:Description
rdf:about="#England"/><rdf:Description
rdf:about="#France"/></owl:distinctMembers></rdf:Description>
<!-- http://www.co-ode.org/ontologies/pizza/pizza.owl#Italy -->
<owl:Thing rdf:about="#Italy"><rdf:type
rdf:resource="#Country"/></owl:Thing><rdf:Description><rdf:type
rdf:resource="http://www.w3.org/2002/07/owl#AllDifferent"/><owl:distinctMembers
rdf:parseType="Collection"><rdf:Description rdf:about="#America"/><rdf:Description
```



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```
rdf:about="#Italy"/><rdf:Description rdf:about="#Germany"/><rdf:Description  
rdf:about="#England"/><rdf:Description  
rdf:about="#France"/></owl:distinctMembers></rdf:Description></rdf:RDF>
```