@prefix : <https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#> .

@prefix ps: <https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski> .

@prefix owl: <http://www.w3.org/2002/07/owl#> .

@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .

@prefix xml: <http://www.w3.org/XML/1998/namespace> .

@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .

@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .

@base <https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski> .

<https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski> rdf:type owl:Ontology ;

<http://purl.org/dc/elements/1.1/creator> "Pawel Staszynski, Ali Momenzadeh Kholenjani" .

#################################################################

# Annotation properties

#################################################################

### http://purl.org/dc/elements/1.1/creator

<http://purl.org/dc/elements/1.1/creator> rdf:type owl:AnnotationProperty .

#################################################################

# Object Properties

#################################################################

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasPizza

:hasPizza rdf:type owl:ObjectProperty ;

rdfs:subPropertyOf owl:topObjectProperty .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasTopping

:hasTopping rdf:type owl:ObjectProperty ;

owl:inverseOf :isToppingOf ;

rdfs:domain :Pizza ;

rdfs:range :PizzaTopping .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#isToppingOf

:isToppingOf rdf:type owl:ObjectProperty ;

rdfs:domain :Pizza ;

rdfs:range :PizzaTopping .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#sellsAlcohol

:sellsAlcohol rdf:type owl:ObjectProperty ;

rdfs:domain :Venue ;

owl:propertyDisjointWith <https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#doesn'tsellAlcohol> .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#doesn'tsellAlcohol

<https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#doesn'tsellAlcohol> rdf:type owl:ObjectProperty ;

rdfs:domain :Venue .

#################################################################

# Data properties

#################################################################

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasPostcode

:hasPostcode rdf:type owl:DatatypeProperty ;

rdfs:subPropertyOf owl:topDataProperty ;

rdfs:domain :Location ;

rdfs:range xsd:string .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasValue

:hasValue rdf:type owl:DatatypeProperty ;

rdfs:domain :Price ;

rdfs:range xsd:decimal .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#isCurrency

:isCurrency rdf:type owl:DatatypeProperty ;

rdfs:subPropertyOf owl:topDataProperty ;

rdfs:domain :Price ;

rdfs:range xsd:string .

#################################################################

# Classes

#################################################################

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#AmericanRestaurant

:AmericanRestaurant rdf:type owl:Class ;

rdfs:subClassOf :Venue ,

[ rdf:type owl:Restriction ;

owl:onProperty :sellsAlcohol ;

owl:minQualifiedCardinality "0"^^xsd:nonNegativeInteger ;

owl:onClass :AmericanRestaurant

] .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Bacon

:Bacon rdf:type owl:Class ;

rdfs:subClassOf :PizzaTopping ;

rdfs:comment "Boczek"@pl .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Bar

:Bar rdf:type owl:Class ;

rdfs:subClassOf :Venue ,

[ rdf:type owl:Restriction ;

owl:onProperty :sellsAlcohol ;

owl:someValuesFrom :Bar

] ;

rdfs:comment "Bar has to sell some alcohol. Kids are not allowed." .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#CaliforniaPizza

:CaliforniaPizza rdf:type owl:Class ;

rdfs:subClassOf :NamedPizza ,

[ rdf:type owl:Restriction ;

owl:onProperty :hasTopping ;

owl:someValuesFrom :CheddarCheese

] ,

[ rdf:type owl:Restriction ;

owl:onProperty :hasTopping ;

owl:someValuesFrom :Cheese

] ,

[ rdf:type owl:Restriction ;

owl:onProperty :hasTopping ;

owl:someValuesFrom :Mushroom

] ,

[ rdf:type owl:Restriction ;

owl:onProperty :hasTopping ;

owl:someValuesFrom :RomaTomatoes

] ,

[ rdf:type owl:Restriction ;

owl:onProperty :hasTopping ;

owl:someValuesFrom :Spinach

] ,

[ rdf:type owl:Restriction ;

owl:onProperty :hasTopping ;

owl:minQualifiedCardinality "0"^^xsd:nonNegativeInteger ;

owl:onClass :ChickenBreast

] ;

owl:disjointWith :HawaiianPizza ,

:PizzaDaAli ;

rdfs:comment "This is expensive pizza to make" .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#CheddarCheese

:CheddarCheese rdf:type owl:Class ;

rdfs:subClassOf :PizzaTopping ;

owl:disjointWith :Mozzarella .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Cheese

:Cheese rdf:type owl:Class ;

rdfs:subClassOf :PizzaTopping .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#ChickenBreast

:ChickenBreast rdf:type owl:Class ;

rdfs:subClassOf :PizzaTopping .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Food

:Food rdf:type owl:Class .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#FrenchRestaurant

:FrenchRestaurant rdf:type owl:Class ;

rdfs:subClassOf :Venue ,

[ rdf:type owl:Restriction ;

owl:onProperty :sellsAlcohol ;

owl:minQualifiedCardinality "0"^^xsd:nonNegativeInteger ;

owl:onClass :FrenchRestaurant

] .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Ham

:Ham rdf:type owl:Class ;

rdfs:subClassOf :PizzaTopping ;

rdfs:comment "Szynka"@pl .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#HawaiianPizza

:HawaiianPizza rdf:type owl:Class ;

rdfs:subClassOf :NamedPizza ,

[ rdf:type owl:Restriction ;

owl:onProperty :hasTopping ;

owl:someValuesFrom :Ham

] ,

[ rdf:type owl:Restriction ;

owl:onProperty :hasTopping ;

owl:someValuesFrom :Pineapple

] ,

[ rdf:type owl:Restriction ;

owl:onProperty :hasTopping ;

owl:minQualifiedCardinality "0"^^xsd:nonNegativeInteger ;

owl:onClass :Bacon

] ;

owl:disjointWith :PizzaDaAli .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#ItalianRestaurant

:ItalianRestaurant rdf:type owl:Class ;

rdfs:subClassOf :Venue ,

[ rdf:type owl:Restriction ;

owl:onProperty :sellsAlcohol ;

owl:minQualifiedCardinality "0"^^xsd:nonNegativeInteger ;

owl:onClass :ItalianRestaurant

] .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Location

:Location rdf:type owl:Class .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Mozzarella

:Mozzarella rdf:type owl:Class ;

rdfs:subClassOf :PizzaTopping .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Mushroom

:Mushroom rdf:type owl:Class ;

rdfs:subClassOf :PizzaTopping .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#NamedPizza

:NamedPizza rdf:type owl:Class ;

rdfs:subClassOf :Pizza .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Pineapple

:Pineapple rdf:type owl:Class ;

rdfs:subClassOf :PizzaTopping ;

owl:disjointWith :Spinach ;

rdfs:comment "Canned or fresh." .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Pizza

:Pizza rdf:type owl:Class ;

rdfs:subClassOf :Food ;

owl:disjointWith :PizzaTopping .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaDaAli

:PizzaDaAli rdf:type owl:Class ;

rdfs:subClassOf :NamedPizza ,

[ rdf:type owl:Restriction ;

owl:onProperty :hasTopping ;

owl:someValuesFrom :Bacon

] ,

[ rdf:type owl:Restriction ;

owl:onProperty :hasTopping ;

owl:someValuesFrom :Cheese

] ,

[ rdf:type owl:Restriction ;

owl:onProperty :hasTopping ;

owl:someValuesFrom :Mushroom

] .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaPlace

:PizzaPlace rdf:type owl:Class ;

rdfs:subClassOf :Venue ,

[ rdf:type owl:Restriction ;

owl:onProperty <https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#doesn'tsellAlcohol> ;

owl:allValuesFrom :PizzaPlace

] .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaTopping

:PizzaTopping rdf:type owl:Class ;

rdfs:subClassOf :Food .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzeriaDaAli

:PizzeriaDaAli rdf:type owl:Class ;

rdfs:subClassOf :Venue ,

[ rdf:type owl:Restriction ;

owl:onProperty :hasPizza ;

owl:someValuesFrom :PizzaDaAli

] ,

[ rdf:type owl:Restriction ;

owl:onProperty :sellsAlcohol ;

owl:someValuesFrom :PizzeriaDaAli

] .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Price

:Price rdf:type owl:Class .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Restaurant

:Restaurant rdf:type owl:Class ;

rdfs:subClassOf :Venue ,

[ rdf:type owl:Restriction ;

owl:onProperty :sellsAlcohol ;

owl:minQualifiedCardinality "0"^^xsd:nonNegativeInteger ;

owl:onClass :Restaurant

] .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#RomaTomatoes

:RomaTomatoes rdf:type owl:Class ;

rdfs:subClassOf :PizzaTopping .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Spinach

:Spinach rdf:type owl:Class ;

rdfs:subClassOf :PizzaTopping .

### https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Venue

:Venue rdf:type owl:Class .

### Generated by the OWL API (version 4.5.26.2023-07-17T20:34:13Z) <https://github.com/owlcs/owlapi>

<?xml version="1.0"?>

<rdf:RDF xmlns="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#"

xml:base="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski"

xmlns:dc="http://purl.org/dc/elements/1.1/"

xmlns:ps="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski"

xmlns:owl="http://www.w3.org/2002/07/owl#"

xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"

xmlns:xml="http://www.w3.org/XML/1998/namespace"

xmlns:xsd="http://www.w3.org/2001/XMLSchema#"

xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">

<owl:Ontology rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski">

<dc:creator>Pawel Staszynski, Ali Momenzadeh Kholenjani</dc:creator>

</owl:Ontology>

<!--

///////////////////////////////////////////////////////////////////////////////////////

//

// Annotation properties

//

///////////////////////////////////////////////////////////////////////////////////////

-->

<!-- http://purl.org/dc/elements/1.1/creator -->

<owl:AnnotationProperty rdf:about="http://purl.org/dc/elements/1.1/creator"/>

<!--

///////////////////////////////////////////////////////////////////////////////////////

//

// Object Properties

//

///////////////////////////////////////////////////////////////////////////////////////

-->

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasPizza -->

<owl:ObjectProperty rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasPizza">

<rdfs:subPropertyOf rdf:resource="http://www.w3.org/2002/07/owl#topObjectProperty"/>

</owl:ObjectProperty>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasTopping -->

<owl:ObjectProperty rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasTopping">

<owl:inverseOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#isToppingOf"/>

<rdfs:domain rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Pizza"/>

<rdfs:range rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaTopping"/>

</owl:ObjectProperty>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#isToppingOf -->

<owl:ObjectProperty rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#isToppingOf">

<rdfs:domain rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Pizza"/>

<rdfs:range rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaTopping"/>

</owl:ObjectProperty>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#sellsAlcohol -->

<owl:ObjectProperty rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#sellsAlcohol">

<rdfs:domain rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Venue"/>

<owl:propertyDisjointWith rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#doesn&apos;tsellAlcohol"/>

</owl:ObjectProperty>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#doesn&apos;tsellAlcohol -->

<owl:ObjectProperty rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#doesn&apos;tsellAlcohol">

<rdfs:domain rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Venue"/>

</owl:ObjectProperty>

<!--

///////////////////////////////////////////////////////////////////////////////////////

//

// Data properties

//

///////////////////////////////////////////////////////////////////////////////////////

-->

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasPostcode -->

<owl:DatatypeProperty rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasPostcode">

<rdfs:subPropertyOf rdf:resource="http://www.w3.org/2002/07/owl#topDataProperty"/>

<rdfs:domain rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Location"/>

<rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>

</owl:DatatypeProperty>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasValue -->

<owl:DatatypeProperty rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasValue">

<rdfs:domain rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Price"/>

<rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#decimal"/>

</owl:DatatypeProperty>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#isCurrency -->

<owl:DatatypeProperty rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#isCurrency">

<rdfs:subPropertyOf rdf:resource="http://www.w3.org/2002/07/owl#topDataProperty"/>

<rdfs:domain rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Price"/>

<rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>

</owl:DatatypeProperty>

<!--

///////////////////////////////////////////////////////////////////////////////////////

//

// Classes

//

///////////////////////////////////////////////////////////////////////////////////////

-->

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#AmericanRestaurant -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#AmericanRestaurant">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Venue"/>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#sellsAlcohol"/>

<owl:minQualifiedCardinality rdf:datatype="http://www.w3.org/2001/XMLSchema#nonNegativeInteger">0</owl:minQualifiedCardinality>

<owl:onClass rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#AmericanRestaurant"/>

</owl:Restriction>

</rdfs:subClassOf>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Bacon -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Bacon">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaTopping"/>

<rdfs:comment xml:lang="pl">Boczek</rdfs:comment>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Bar -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Bar">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Venue"/>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#sellsAlcohol"/>

<owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Bar"/>

</owl:Restriction>

</rdfs:subClassOf>

<rdfs:comment>Bar has to sell some alcohol. Kids are not allowed.</rdfs:comment>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#CaliforniaPizza -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#CaliforniaPizza">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#NamedPizza"/>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasTopping"/>

<owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#CheddarCheese"/>

</owl:Restriction>

</rdfs:subClassOf>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasTopping"/>

<owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Cheese"/>

</owl:Restriction>

</rdfs:subClassOf>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasTopping"/>

<owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Mushroom"/>

</owl:Restriction>

</rdfs:subClassOf>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasTopping"/>

<owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#RomaTomatoes"/>

</owl:Restriction>

</rdfs:subClassOf>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasTopping"/>

<owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Spinach"/>

</owl:Restriction>

</rdfs:subClassOf>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasTopping"/>

<owl:minQualifiedCardinality rdf:datatype="http://www.w3.org/2001/XMLSchema#nonNegativeInteger">0</owl:minQualifiedCardinality>

<owl:onClass rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#ChickenBreast"/>

</owl:Restriction>

</rdfs:subClassOf>

<owl:disjointWith rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#HawaiianPizza"/>

<owl:disjointWith rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaDaAli"/>

<rdfs:comment>This is expensive pizza to make</rdfs:comment>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#CheddarCheese -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#CheddarCheese">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaTopping"/>

<owl:disjointWith rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Mozzarella"/>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Cheese -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Cheese">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaTopping"/>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#ChickenBreast -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#ChickenBreast">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaTopping"/>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Food -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Food"/>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#FrenchRestaurant -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#FrenchRestaurant">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Venue"/>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#sellsAlcohol"/>

<owl:minQualifiedCardinality rdf:datatype="http://www.w3.org/2001/XMLSchema#nonNegativeInteger">0</owl:minQualifiedCardinality>

<owl:onClass rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#FrenchRestaurant"/>

</owl:Restriction>

</rdfs:subClassOf>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Ham -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Ham">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaTopping"/>

<rdfs:comment xml:lang="pl">Szynka</rdfs:comment>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#HawaiianPizza -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#HawaiianPizza">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#NamedPizza"/>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasTopping"/>

<owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Ham"/>

</owl:Restriction>

</rdfs:subClassOf>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasTopping"/>

<owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Pineapple"/>

</owl:Restriction>

</rdfs:subClassOf>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasTopping"/>

<owl:minQualifiedCardinality rdf:datatype="http://www.w3.org/2001/XMLSchema#nonNegativeInteger">0</owl:minQualifiedCardinality>

<owl:onClass rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Bacon"/>

</owl:Restriction>

</rdfs:subClassOf>

<owl:disjointWith rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaDaAli"/>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#ItalianRestaurant -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#ItalianRestaurant">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Venue"/>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#sellsAlcohol"/>

<owl:minQualifiedCardinality rdf:datatype="http://www.w3.org/2001/XMLSchema#nonNegativeInteger">0</owl:minQualifiedCardinality>

<owl:onClass rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#ItalianRestaurant"/>

</owl:Restriction>

</rdfs:subClassOf>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Location -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Location"/>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Mozzarella -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Mozzarella">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaTopping"/>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Mushroom -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Mushroom">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaTopping"/>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#NamedPizza -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#NamedPizza">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Pizza"/>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Pineapple -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Pineapple">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaTopping"/>

<owl:disjointWith rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Spinach"/>

<rdfs:comment>Canned or fresh.</rdfs:comment>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Pizza -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Pizza">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Food"/>

<owl:disjointWith rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaTopping"/>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaDaAli -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaDaAli">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#NamedPizza"/>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasTopping"/>

<owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Bacon"/>

</owl:Restriction>

</rdfs:subClassOf>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasTopping"/>

<owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Cheese"/>

</owl:Restriction>

</rdfs:subClassOf>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasTopping"/>

<owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Mushroom"/>

</owl:Restriction>

</rdfs:subClassOf>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaPlace -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaPlace">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Venue"/>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#doesn&apos;tsellAlcohol"/>

<owl:allValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaPlace"/>

</owl:Restriction>

</rdfs:subClassOf>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaTopping -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaTopping">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Food"/>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzeriaDaAli -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzeriaDaAli">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Venue"/>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#hasPizza"/>

<owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaDaAli"/>

</owl:Restriction>

</rdfs:subClassOf>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#sellsAlcohol"/>

<owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzeriaDaAli"/>

</owl:Restriction>

</rdfs:subClassOf>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Price -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Price"/>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Restaurant -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Restaurant">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Venue"/>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#sellsAlcohol"/>

<owl:minQualifiedCardinality rdf:datatype="http://www.w3.org/2001/XMLSchema#nonNegativeInteger">0</owl:minQualifiedCardinality>

<owl:onClass rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Restaurant"/>

</owl:Restriction>

</rdfs:subClassOf>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#RomaTomatoes -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#RomaTomatoes">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaTopping"/>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Spinach -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Spinach">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#PizzaTopping"/>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Venue -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel\_staszynski#Venue"/>

</rdf:RDF>

<!-- Generated by the OWL API (version 4.5.26.2023-07-17T20:34:13Z) https://github.com/owlcs/owlapi -->