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Ontology Specification Draft

Abstract

This is a placeholder text for the abstract. The abstract should contain a couple of sentences summarizing the ontology and its purpose.

Table of contents

- 1. [Introduction](#)
 - 1.1. [Namespace declarations](#)
- 2. [Smart Tourism Ontology\]: Overview](#)
- 3. [Smart Tourism Ontology\]: Description](#)
- 4. [Cross-reference for Smart Tourism Ontology\] classes, object properties and data properties](#)
 - 4.1. [Classes](#)
 - 4.2. [Object Properties](#)
 - 4.3. [Data Properties](#)
 - 4.4. [Annotation Properties](#)
 - 4.5. [Named Individuals](#)
 - 4.6. [SWRL rules](#)
- 5. [References](#)
- 6. [Acknowledgments](#)

Introduction back to [ToC](#)

This is a place holder text for the introduction. The introduction should briefly describe the ontology, its motivation, state of the art and goals.

Namespace declarations

[Table 1](#): Namespaces used in the document

[Ontology NS Prefix]	< http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16/ >
owl	< http://www.w3.org/2002/07/owl# >
rdf	< http://www.w3.org/1999/02/22-rdf-syntax-ns# >
rdfs	< http://www.w3.org/2000/01/rdf-schema# >
swrl	< http://www.w3.org/2003/11/swrl# >
swrla	< http://swrl.stanford.edu/ontologies/3.3/swrla.owl# >
swrlb	< http://www.w3.org/2003/11/swrlb# >
untitled-ontology-16	< http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16/ >
xml	< http://www.w3.org/XML/1998/namespace >
xsd	< http://www.w3.org/2001/XMLSchema# >

Smart Tourism Ontology]: Overview back to [ToC](#)

This ontology has the following classes and properties.

Classes

- [Attraction](#)
- [BudgetHotel](#)
- [Bus](#)
- [Category](#)
- [City](#)
- [Concert](#)
- [Event](#)
- [EventLocation](#)
- [Exhibition](#)
- [Fine Dining Restaurant](#)
- [Hall](#)
- [Hotel](#)
- [HotelLocation](#)
- [Location](#)
- [LuxuryHotel](#)
- [Metro](#)
- [Monument](#)
- [Museum](#)
- [Park](#)

- [Religious Monument](#)
- [Restaurant](#)
- [Seafood Restaurant](#)
- [Tapas Restaurant](#)
- [ThemePark](#)
- [Train](#)
- [Tram](#)
- [Transport](#)

Object Properties

- [hasCategory](#)
- [hasTransportOption](#)
- [isLocatedAt](#)
- [isLocatedIn](#)
- [isNearTo](#)
- [MetroBarcelona](#)
- [occursAt](#)

Data Properties

- [address](#)
- [attractionType](#)
- [categoryName](#)
- [cityName](#)
- [eventDate](#)
- [hotelStars](#)
- [name](#)
- [restaurantCuisine](#)
- [transportType](#)

Annotation Properties

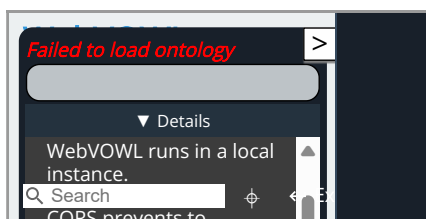
- [is Rule Enabled](#)
- [same As](#)

Named Individuals

- [Barcelona](#)
- [Event Barcelona Concert](#)
- [Event Madrid Art Expo](#)
- [Event Valencia Festival](#)
- [Fira Barcelona Location](#)
- [Hotel Arts](#)
- [Hotel Barcelona Center](#)
- [Hotel Madrid Palace](#)
- [Hotel Valencia Center](#)
- [M W C2025](#)
- [Madrid](#)
- [MetroBarcelona](#)
- [Religious Monument](#)
- [Restaurant Barcelona Seafood](#)
- [Restaurant Madrid Tapas](#)
- [Restaurant Valencia Paella](#)
- [Restaurante Can Majo](#)
- [Sagrada Familia](#)
- [Transport Barcelona Metro](#)
- [Transport Madrid Bus](#)
- [Transport Valencia Tram](#)
- [Valencia](#)

SWRL Rules

- [Rule 1](#)
- [Rule 2](#)
- [Rule 3](#)



Smart Tourism Ontology]: Description back to [ToC](#)

This is a placeholder text for the description of your ontology. The description should include an explanation and a diagram explaining how the classes are related, examples of usage, etc.

Cross-reference for Smart Tourism Ontology] classes, object properties and data properties back to [ToC](#)

This section provides details for each class and property defined by Smart Tourism Ontology].

Classes

- [Attraction](#)
- [BudgetHotel](#)
- [Bus](#)
- [Category](#)
- [City](#)
- [Concert](#)
- [Event](#)
- [EventLocation](#)
- [Exhibition](#)
- [Fine Dining Restaurant](#)
- [Hall](#)
- [Hotel](#)
- [HotelLocation](#)
- [Location](#)
- [LuxuryHotel](#)
- [Metro](#)
- [Monument](#)
- [Museum](#)
- [Park](#)
- [Religious Monument](#)
- [Restaurant](#)
- [Seafood Restaurant](#)
- [Tapas Restaurant](#)
- [ThemePark](#)
- [Train](#)
- [Tram](#)
- [Transport](#)

Attraction^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Attraction

A place of interest tourists visit.

is equivalent to

[attractionType](#)^{dp} exactly 1

has sub-classes

[Monument](#)^c, [Park](#)^c, [ThemePark](#)^c

is in domain of

[attractionType](#)^{dp}, [hasCategory](#)^{op}, [hasTransportOption](#)^{op}, [isLocatedAt](#)^{op}, [isLocatedIn](#)^{op}, [isNearTo](#)^{op}, [name](#)^{dp}

is in range of

[isNearTo](#)^{op}

BudgetHotel^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#BudgetHotel

A hotel offering basic accommodation at lower prices.

has super-classes

[Hotel](#)^c

Bus^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Bus

A large road vehicle for carrying passengers.

has super-classes

[Transport](#)^c

Category^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Category

A classification grouping events or attractions.

has sub-classes

[Religious Monument](#)^c

is in domain of

[categoryName](#)^{dp}, [name](#)^{dp}

is in range of

[hasCategory](#)^{op}

City^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#City

A geographical urban area.

is in domain of

[cityName](#)^{dp}, [name](#)^{dp}

is in range of

[isLocatedIn](#)^{op}

Concert^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Concert

A musical performance held for an audience.

has super-classes

[Event](#)^c

Event^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Event

An organized happening or gathering in a city.

is equivalent to

[eventDate](#)^{dp} exactly 1

has sub-classes

[Concert](#)^c, [Exhibition](#)^c, [Hall](#)^c

is in domain of

[eventDate](#)^{dp}, [hasCategory](#)^{op}, [isLocatedIn](#)^{op}, [name](#)^{dp}, [occursAt](#)^{op}

EventLocation^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#EventLocation

The site where an event takes place.

has super-classes

[Location](#)^c

has members

[Fira Barcelona Location](#)ⁿⁱ

Exhibition^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Exhibition

A public display of art, products, or services.

has super-classes

[Event](#)^c

has members

[M W C2025](#)ⁿⁱ

Fine Dining Restaurant^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#FineDiningRestaurant

A restaurant offering high-quality food and service.

has super-classes

[Restaurant](#)^c

Hall^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Hall

A large room used for events.

has super-classes

[Event](#)^c**Hotel^c** back to [ToC](#) or [Class ToC](#)**IRI:** http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Hotel

A place providing lodging to travelers.

is equivalent to

[hotelStars](#)^{dp} exactly 1

has sub-classes

[BudgetHotel](#)^c, [LuxuryHotel](#)^c

is in domain of

[hotelStars](#)^{dp}, [isLocatedAt](#)^{op}, [isLocatedIn](#)^{op}, [isNearTo](#)^{op}, [name](#)^{dp}

is in range of

[isNearTo](#)^{op}

has members

[Hotel Barcelona Center](#)ⁿⁱ, [Hotel Madrid Palace](#)ⁿⁱ, [Hotel Valencia Center](#)ⁿⁱ**HotelLocation^c** back to [ToC](#) or [Class ToC](#)**IRI:** http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#HotelLocation

The physical place where a hotel is situated.

has super-classes

[Location](#)^c**Location^c** back to [ToC](#) or [Class ToC](#)**IRI:** http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Location

A specific place within a city.

is equivalent to

[address](#)^{dp} exactly 1

has sub-classes

[EventLocation](#)^c, [HotelLocation](#)^c

is in domain of

[address](#)^{dp}, [name](#)^{dp}

is in range of

[isLocatedAt](#)^{op}, [occursAt](#)^{op}**LuxuryHotel^c** back to [ToC](#) or [Class ToC](#)**IRI:** http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#LuxuryHotel

A hotel offering high-end services and facilities.

has super-classes

[Hotel](#)^c

has members

[Hotel Arts](#)ⁿⁱ**Metro^c** back to [ToC](#) or [Class ToC](#)**IRI:** http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Metro

An urban underground railway system.

has super-classes

[Transport](#)^c

has members

[MetroBarcelona](#)ⁿⁱ**Monument^c** back to [ToC](#) or [Class ToC](#)**IRI:** http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Monument

A structure built to commemorate a person or event.

has super-classes

[Attraction](#)^c

has sub-classes

[Museum](#)^c

has members

[Sagrada Familia](#)ⁿⁱ

Museum^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Museum

A building where historical, scientific or artistic items are exhibited.

has super-classes

[Monument](#)^c

Park^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Park

A public green space for recreation.

has super-classes

[Attraction](#)^c

Religious Monument^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#ReligiousMonument

has super-classes

[Category](#)^c

has members

[Religious Monument](#)ⁿⁱ

is also defined as

[named individual](#)

Restaurant^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Restaurant

A place where people pay to eat meals.

is equivalent to

[restaurantCuisine](#)^{dp} exactly 1

has sub-classes

[Fine Dining Restaurant](#)^c, [Seafood Restaurant](#)^c, [Tapas Restaurant](#)^c

is in domain of

[hasCategory](#)^{op}, [isLocatedAt](#)^{op}, [isLocatedIn](#)^{op}, [isNearTo](#)^{op}, [name](#)^{dp}, [restaurantCuisine](#)^{dp}

is in range of

[isNearTo](#)^{op}

has members

[Restaurant Barcelona Seafood](#)ⁿⁱ, [Restaurant Madrid Tapas](#)ⁿⁱ, [Restaurant Valencia Paella](#)ⁿⁱ

Seafood Restaurant^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#SeafoofRestaurant

A restaurant specialized in seafood dishes.

has super-classes

[Restaurant](#)^c

has members

[Restaurante Can Majo](#)ⁿⁱ

Tapas Restaurant^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#TapasRestaurant

A restaurant specialized in Spanish small dishes.

has super-classes

[Restaurant](#)^c

ThemePark^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#ThemePark

An amusement park with themed attractions.

has super-classes

[Attraction](#)^c

Train^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Train

A series of connected vehicles running on railways.

has super-classes

[Transport](#)^c

Tram^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Tram

A passenger vehicle running on tracks in streets.

has super-classes

[Transport](#)^c

Transport^c back to [ToC](#) or [Class ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Transport

A means of moving people or goods.

is equivalent to

[transportType](#)^{dp} exactly 1

has sub-classes

[Bus](#)^c, [Metro](#)^c, [Train](#)^c, [Tram](#)^c

is in domain of

[isLocatedAt](#)^{op}, [isLocatedIn](#)^{op}, [name](#)^{dp}, [transportType](#)^{dp}

is in range of

[hasTransportOption](#)^{op}

has members

[Transport Barcelona Metro](#)ⁿⁱ, [Transport Madrid Bus](#)ⁿⁱ, [Transport Valencia Tram](#)ⁿⁱ

Object Properties

- [hasCategory](#)
- [hasTransportOption](#)
- [isLocatedAt](#)
- [isLocatedIn](#)
- [isNearTo](#)
- [MetroBarcelona](#)
- [occursAt](#)

hasCategory^{op} back to [ToC](#) or [Object Property ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#hasCategory

Relates an Event or Attraction to its Category.

has super-properties

[top.Object Property](#)^{op}

has domain

[Attraction](#)^c

[Event](#)^c

[Restaurant](#)^c

has range

[Category](#)^c

hasTransportOption^{op} back to [ToC](#) or [Object Property ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#hasTransportOption

Links a City to the transport options available.

has super-properties

[top.Object Property](#)^{op}

has sub-properties

[MetroBarcelona](#)^{op}

has domain

[Attraction](#)^c

has range

[Transport](#)^c

isLocatedAt^{op} back to [ToC](#) or [Object Property ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#isLocatedAt

Indicates the specific Location of an entity.

has super-properties

[top Object Property](#) ^{op}

has domain

[Attraction](#) ^c

[Hotel](#) ^c

[Restaurant](#) ^c

[Transport](#) ^c

has range

[Location](#) ^c

isLocatedIn^{op} back to [ToC](#) or [Object Property ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#isLocatedIn

Indicates the City in which an entity is located.

has super-properties

[top Object Property](#) ^{op}

has domain

[Attraction](#) ^c

[Event](#) ^c

[Hotel](#) ^c

[Restaurant](#) ^c

[Transport](#) ^c

has range

[City](#) ^c

isNearTo^{op} back to [ToC](#) or [Object Property ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#isNearTo

Connects two places that are geographically close.

has super-properties

[top Object Property](#) ^{op}

has domain

[Attraction](#) ^c

[Hotel](#) ^c

[Restaurant](#) ^c

has range

[Attraction](#) ^c

[Hotel](#) ^c

[Restaurant](#) ^c

MetroBarcelona^{op} back to [ToC](#) or [Object Property ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#MetroBarcelona

has super-properties

[hasTransportOption](#) ^{op}

is also defined as

[named individual](#)

occursAt^{op} back to [ToC](#) or [Object Property ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#occursAt

Connects an Event to the Location where it occurs.

has super-properties

[top Object Property](#) ^{op}

has domain

[Event](#) ^c

has range

[Location](#) ^c

Data Properties

- [address](#)
- [attractionType](#)
- [categoryName](#)

- [cityName](#)
- [eventDate](#)
- [hotelStars](#)
- [name](#)
- [restaurantCuisine](#)
- [transportType](#)

address^{dp} back to [ToC](#) or [Data Property ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#address

The physical address of an entity.

has super-properties

[top Data Property](#)^{dp}

has domain

[Location](#)^c

has range

[string](#)

attractionType^{dp} back to [ToC](#) or [Data Property ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#attractionType

The specific type of an attraction.

has super-properties

[top Data Property](#)^{dp}

has domain

[Attraction](#)^c

has range

[string](#)

categoryName^{dp} back to [ToC](#) or [Data Property ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#categoryName

The name of the category assigned

has super-properties

[top Data Property](#)^{dp}

has domain

[Category](#)^c

has range

[string](#)

cityName^{dp} back to [ToC](#) or [Data Property ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#cityName

The name of a city.

has super-properties

[top Data Property](#)^{dp}

has domain

[City](#)^c

has range

[string](#)

eventDate^{dp} back to [ToC](#) or [Data Property ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#eventDate

The date and time when an event happens.

has super-properties

[top Data Property](#)^{dp}

has domain

[Event](#)^c

has range

[date Time](#)

hotelStars^{dp} back to [ToC](#) or [Data Property ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#hotelStars

The star rating of a hotel.

has super-properties
[top Data Property](#)^{dp}
 has domain
[Hotel](#)^c
 has range
[integer](#)

name^{dp} back to [ToC](#) or [Data Property ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#name

The name of the entity.

has super-properties
[top Data Property](#)^{dp}
 has domain
[Attraction](#)^c
[Category](#)^c
[City](#)^c
[Event](#)^c
[Hotel](#)^c
[Location](#)^c
[Restaurant](#)^c
[Transport](#)^c
 has range
[string](#)

restaurantCuisine^{dp} back to [ToC](#) or [Data Property ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#restaurantCuisine

The type of cuisine served by the restaurant.

has super-properties
[top Data Property](#)^{dp}
 has domain
[Restaurant](#)^c
 has range
[string](#)

transportType^{dp} back to [ToC](#) or [Data Property ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#transportType

The type of transport system.

has super-properties
[top Data Property](#)^{dp}
 has domain
[Transport](#)^c
 has range
[string](#)

Annotation Properties

- [is Rule Enabled](#)
- [same As](#)

is Rule Enabled^{ap} back to [ToC](#) or [Annotation Property ToC](#)

IRI: <http://swrl.stanford.edu/ontologies/3.3/swrla.owl#isRuleEnabled>

same As^{ap} back to [ToC](#) or [Annotation Property ToC](#)

IRI: <http://www.w3.org/2002/07/owl#sameAs>

Named Individuals

- [Barcelona](#)
- [Event Barcelona Concert](#)
- [Event Madrid Art Expo](#)
- [Event Valencia Festival](#)
- [Fira Barcelona Location](#)
- [Hotel Arts](#)
- [Hotel Barcelona Center](#)
- [Hotel Madrid Palace](#)

- [Hotel Valencia Center](#)
- [M W C2025](#)
- [Madrid](#)
- [MetroBarcelona](#)
- [Religious Monument](#)
- [Restaurant Barcelona Seafood](#)
- [Restaurant Madrid Tapas](#)
- [Restaurant Valencia Paella](#)
- [Restaurante Can Majo](#)
- [Sagrada Familia](#)
- [Transport Barcelona Metro](#)
- [Transport Madrid Bus](#)
- [Transport Valencia Tram](#)
- [Valencia](#)

Barcelonaⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Barcelona

has facts

[cityName](#) ^{dp} "Barcelona"
[name](#) ^{dp} "Barcelona"

Event Barcelona Concertⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Event_Barcelona_Concert

has facts

[categoryName](#) ^{dp} "Concert"
[eventDate](#) ^{dp} "2025-07-15T20:00:00"^^[date Time](#)
[name](#) ^{dp} "Barcelona Summer Concert"

Event Madrid Art Expoⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Event_Madrid_ArtExpo

has facts

[categoryName](#) ^{dp} "Exhibition"
[eventDate](#) ^{dp} "2025-05-20T10:00:00"^^[date Time](#)
[name](#) ^{dp} "Madrid Art Expo"

Event Valencia Festivalⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Event_Valencia_Festival

has facts

[categoryName](#) ^{dp} "Festival"
[eventDate](#) ^{dp} "2025-03-15T19:00:00"^^[date Time](#)
[name](#) ^{dp} "Valencia Fallas Festival"

Fira Barcelona Locationⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#FiraBarcelonaLocation

belongs to

[EventLocation](#) ^c

has facts

[isLocatedIn](#) ^{op} [Barcelona](#) ⁿⁱ
[occursAt](#) ^{op} [Barcelona](#) ⁿⁱ
[name](#) ^{dp} "Fira Barcelona Location"

Hotel Artsⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#HotelArts

belongs to

[LuxuryHotel](#) ^c

has facts

[isLocatedIn](#) ^{op} [Barcelona](#) ⁿⁱ
[isNearTo](#) ^{op} [Sagrada Familia](#) ⁿⁱ
[address](#) ^{dp} "Carrer de la Marina, 19-21, Barcelona"
[hotelStars](#) ^{dp} "5"^^[decimal](#)
[name](#) ^{dp} "Hotel Arts Barcelona"

Hotel Barcelona Centerⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Hotel_Barcelona_Center

belongs to

[Hotel](#) ^c

has facts

[isLocatedIn](#) ^{op} [Barcelona](#) ⁿⁱ

[address](#) ^{dp} "Carrer Balmes 103, Barcelona"

[hotelStars](#) ^{dp} "4" ^{^^} [integer](#)

[name](#) ^{dp} "Barcelona Center Hotel"

Hotel Madrid Palace ⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Hotel_Madrid_Palace

belongs to

[Hotel](#) ^c

has facts

[isLocatedIn](#) ^{op} [Madrid](#) ⁿⁱ

[address](#) ^{dp} "Calle de Alcalá 15, Madrid"

[hotelStars](#) ^{dp} "5" ^{^^} [decimal](#)

[name](#) ^{dp} "Madrid Palace Hotel"

Hotel Valencia Center ⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Hotel_Valencia_Center

belongs to

[Hotel](#) ^c

has facts

[isLocatedIn](#) ^{op} [Valencia](#) ⁿⁱ

[address](#) ^{dp} "Avenida de Francia 33, Valencia"

[hotelStars](#) ^{dp} "4" ^{^^} [decimal](#)

[name](#) ^{dp} "Valencia Center Hotel"

M W C2025 ⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#MWC2025

belongs to

[Exhibition](#) ^c

has facts

[occursAt](#) ^{op} [Fira Barcelona Location](#) ⁿⁱ

[eventDate](#) ^{dp} "2025-02-24T09:00:00" ^{^^} [date Time](#)

[name](#) ^{dp} "Mobile World Congress 2025"

Madrid ⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Madrid

has facts

[cityName](#) ^{dp} "Madrid"

[name](#) ^{dp} "Madrid"

MetroBarcelona ⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#MetroBarcelona

belongs to

[Metro](#) ^c

has facts

[isLocatedIn](#) ^{op} [Barcelona](#) ⁿⁱ

[address](#) ^{dp} "Plaça Catalunya, Barcelona"

[name](#) ^{dp} "Metro Barcelona"

[name](#) ^{dp} "Public Transportation Barcelona Underground"

[transportType](#) ^{dp} "Metro"

is also defined as

[object property](#)

Religious Monument ⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#ReligiousMonument

belongs to

[Religious Monument](#) ^c

is also defined as

[class](#)

Restaurant Barcelona Seafoodⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Restaurant_Barcelona_Seafood

belongs to

[Restaurant](#) ^c

has facts

[isLocatedIn](#) ^{op} [Barcelona](#) ⁿⁱ

[address](#) ^{dp} "Passeig de Joan de Borbó 58, Barcelona"

[name](#) ^{dp} "Barcelona Seafood Restaurant"

Restaurant Madrid Tapasⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Restaurant_Madrid_Tapas

belongs to

[Restaurant](#) ^c

has facts

[isLocatedIn](#) ^{op} [Madrid](#) ⁿⁱ

[address](#) ^{dp} "Calle Cava Baja 10, Madrid"

[name](#) ^{dp} "Madrid Tapas Bar"

Restaurant Valencia Paellaⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Restaurant_Valencia_Paella

belongs to

[Restaurant](#) ^c

has facts

[isLocatedIn](#) ^{op} [Valencia](#) ⁿⁱ

[address](#) ^{dp} "Carrer del Mar 12, Valencia"

[name](#) ^{dp} "Valencia Paella House"

Restaurante Can Majoⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#RestauranteCanMajo

belongs to

[Seafood Restaurant](#) ^c

has facts

[isLocatedIn](#) ^{op} [Barcelona](#) ⁿⁱ

[isNearTo](#) ^{op} [Sagrada Familia](#) ⁿⁱ

[address](#) ^{dp} "Carrer de l'Almirall Aixada, 23, Barcelona"

[name](#) ^{dp} "Can Majó"

Sagrada Familiaⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#SagradaFamilia

belongs to

[Monument](#) ^c

has facts

[hasCategory](#) ^{op} [Religious Monument](#) ⁿⁱ

[hasTransportOption](#) ^{op} [MetroBarcelona](#) ⁿⁱ

[isLocatedIn](#) ^{op} [Barcelona](#) ⁿⁱ

[address](#) ^{dp} "Carrer de Mallorca, 401, Barcelona"

[attractionType](#) ^{dp} "Cathedral"

[name](#) ^{dp} "Sagrada Familia"

Transport Barcelona Metroⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Transport_Barcelona_Metro

belongs to

[Transport](#) ^c

has facts

[isLocatedIn](#) ^{op} [Barcelona](#) ⁿⁱ

[name](#) ^{dp} "Barcelona Metro"

[transportType](#) ^{dp} "Metro"

Transport Madrid Busⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Transport_Madrid_Bus

belongs to

[Transport](#)^c

has facts

[isLocatedIn](#)^{op} [Madrid](#)ⁿⁱ

[name](#)^{dp} "Madrid City Bus"

[transportType](#)^{dp} "Bus"

Transport Valencia Tramⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Transport_Valencia_Tram

belongs to

[Transport](#)^c

has facts

[isLocatedIn](#)^{op} [Valencia](#)ⁿⁱ

[name](#)^{dp} "Valencia Tram"

[transportType](#)^{dp} "Tram"

Valenciaⁿⁱ back to [ToC](#) or [Named Individual ToC](#)

IRI: http://www.semanticweb.org/jm_bc/ontologies/2025/3/untitled-ontology-16#Valencia

has facts

[cityName](#)^{dp} "Valencia"

[name](#)^{dp} "Valencia"

SWRL rules

- [Rule 1](#)
- [Rule 2](#)
- [Rule 3](#)

Rule 1 back to [ToC](#) or [SWRL ToC](#)

If a hotel has 5 stars, it is classified as a LuxuryHotel.

[Hotel](#)^{c(?)} , [hotelStars](#)^{dp(?,?)} , [equal](#)(?) -> [LuxuryHotel](#)^{c(?)}

Rule 2 back to [ToC](#) or [SWRL ToC](#)

If a hotel has less than 3 stars, it is classified as a BudgetHotel.

[Hotel](#)^{c(?)} , [hotelStars](#)^{dp(?,?)} , [lessThan](#)(?) -> [BudgetHotel](#)^{c(?)}

Rule 3 back to [ToC](#) or [SWRL ToC](#)

If an individual is classified as a Bus, it is also classified as a Transport.

[Bus](#)^{c(?)} -> [Transport](#)^{c(?)}

Legend back to [ToC](#)

^c: Classes

^{op}: Object Properties

^{dp}: Data Properties

ⁿⁱ: Named Individuals

References back to [ToC](#)

Add your references here. It is recommended to have them as a list.

Acknowledgments back to [ToC](#)

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