COLEGIOS Y BIBLIOTECAS EN LA COMUNIDAD DE MADRID

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¿SOBRE QUÉ TRATA NUESTRO PROYECTO?

EL OBJETIVO DE ESTE PROYECTO ES PODER RELACIONAR BIBLIOTECAS Y COLEGIOS PÚBLICOS EN MADRID DE DISTINTAS FORMAS:

- DISTANCIA ENTRE DOS DE LAS INSTITUCIONES
- LA ACCESIBILIDAD DE DICHAS INSTITUCIONES
 UTILIZANDO TRANSPORTE PÚBLICO
- VER Y COMPARAR LOS RECURSOS Y EQUIPACIÓN DE CADA UNA
- ANALIZAR EL TIPO DE INSTITUCIÓN ACORDE NUMEROSOS RASGOS

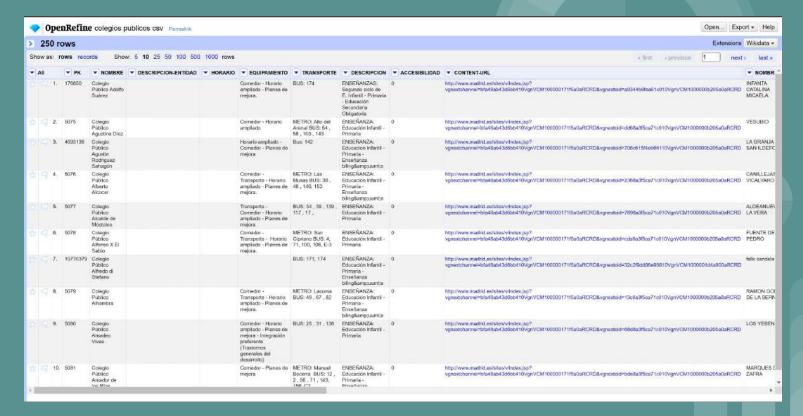
SELECCIÓN Y DESCRIPCIÓN DE LOS DATASETS

ORÍGEN: https://datos.madrid.es/portal/site/egob

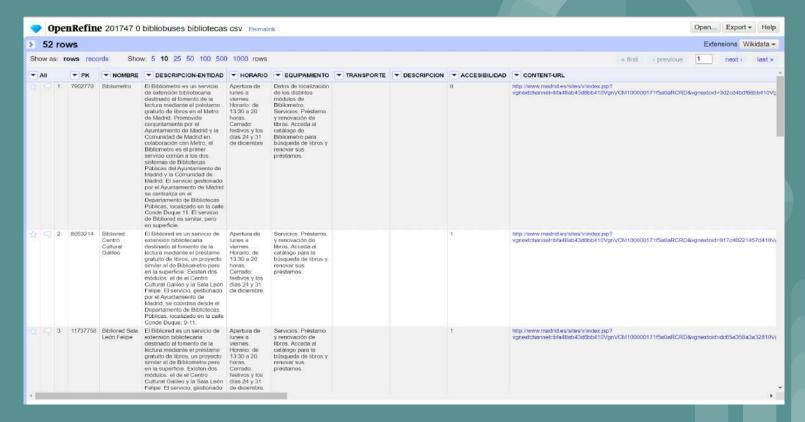
REQUISITOS:

- DOMINIO DE "SMART CITIES"
- DISPONIBLES EN FORMATO CSV
- LICENCIA ABIERTA PARA PODER PUBLICARSE
- LOS DATOS SE PUEDEN VINCULAR FÁCILMENTE A RECURSOS EXTERNOS
- CUENTA CON DOCUMENTACIÓN DETALLADA
- LA INFORMACIÓN PROVIENE DE DOS FUENTES DISTINTAS

SELECCIÓN Y DESCRIPCIÓN DE LOS DATASETS: COLEGIOS



SELECCIÓN Y DESCRIPCIÓN DE LOS DATASETS: BIBLIOTECAS



ESTRATEGIA DE NOMBRADO

1

DOMINIO

RECURSOS

ONTOLOGÍA

Compuesta por clases y propiedades

EJEMPLOS DE NOMBRADO:

- 1. Base: https://www.biblioescuela.educamadrid.org/ontologies
- 2. Clase: https://www.biblioescuela.educamadrid.org/ontologies/Building#Location
- 3. Clase: https://www.biblioescuela.educamadrid.org/ontologies/Library#Transport
- 4. Clase: https://www.biblioescuela.educamadrid.org/ontologies/School#ContactInfo
- 5. Propiedades: https://www.biblioescuela.educamadrid.org/ontologies/Library#hasAdress
- 6. Individual: https://www.biblioescuela.educamadrid.org/resource/Building/Location/Location1
- 7. Individual: https://www.biblioescuela.educamadrid.org/resource/Building/Coordinates/Coordinates1
- 8. Individual: https://www.biblioescuela.educamadrid.org/resource/Library/openingHours/openingHours1

DESARROLLO DE LA ONTOLOGÍA

Partimos de la clase inicial "Building"



Creamos las subclases "Library" y "School"

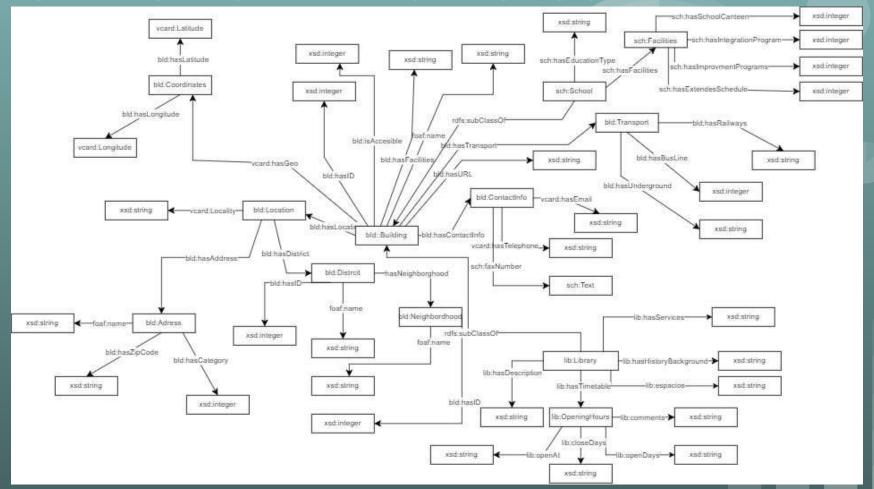


Propiedades heredadas de "Building"



Propiedades específicas de las clases "Library" y "School"

DESARROLLO DE LA ONTOLOGÍA



CAMBIOS REALIZADOS EN LOS DATASETS: COLEGIOS

- DIVIDIR LA SECCIÓN DE EQUIPAMIENTO
- DIVIDIR LA SECCIÓN DE TRANSPORTE
- ELIMINAR COLUMNAS VACÍAS Y NO UTILIZADAS
- RELLENAR LOS ELEMENTOS VACÍOS
- AÑADIR LOS LINKS DE RECONCILIACIÓN

CAMBIOS REALIZADOS EN LOS DATASETS: BIBLIOTECAS

- SEPARAR LA SECCIÓN DE HORARIO EN 4: LOS DÍAS DE APERTURA, LAS HORAS DE APERTURA, DÍAS DE CIERRE Y COMENTARIOS
- DIVIDIR LA SECCIÓN DE EQUIPAMIENTO
- DIVIDIR LA SECCIÓN DE TRANSPORTE
- ELIMINAR COLUMNAS VACÍAS
- AÑADIR LINKS DE RECONCILIACIÓN

DISEÑO DEL MAPPING: PREFIJOS

```
@prefix rr: <a href="http://www.w3.org/ns/r2rml#">
@prefix rml: <a href="http://semweb.mmlab.be/ns/rml#">
@prefix rml: <a href="http://semweb.mmlab.be/ns/rml#">
@prefix ql: <a href="http://semweb.mmlab.be/ns/ql#">
@prefix ql: <a href="http://semweb.mmlab.be/ns/ql#">
@prefix ql: <a href="http://semweb.mmlab.be/ns/ql#">
@prefix ql: <a href="http://semweb.mmlab.be/ns/ql#">
@prefix http://semweb.mmlab.be/ns/ql#">
@prefix http://semweb.mmlab.be/ns/ql#">
@prefix knttp://semweb.mmlab.be/ns/ql#">
@prefix knttp://semweb.mmlab.be/ns/ql#">
@prefix knttp://semweb.mmlab.be/ns/ql#">
@prefix knttp://www.w3.org/2001/xmls</a>
@prefix wss4 <a href="http://www.w3.org/2001/loges/sad-mask-">
@prefix wss84_pos# <a href="https://www.biblioescuela.educamadrid.org/ontologies/school#">
@prefix sch: <a href="https://www.biblioescuela.educamadrid.org/ontologies/school#">
@prefix bldg: <a href="https://www.biblioescuela.educamadrid.org/ontologies/suilding#">
@prefix vcard: <a href="http://www.w3.org/2006/vcard/ns#">
@prefix owl: <a href="http://www.w3.org/2002/07/owl#">
@prefix owl: <a href="http://www.w3.org/2002/07/owl#">
@prefix owl: <a href="http://www.w3.org/2002/07/owl#">
@prefix owl: <a href="http://www.biblioescuela.educamadriD.org/g01_linked_data/ontologies#">https://www.biblioescuela.educamadriD.org/g01_linked_data/ontologies#</a>

@base <a href="https://www.biblioescuela.educamadriD.org/g01_linked_data/ontologies#">
@prefix owl: <a href="https://www.biblioescuel
```

```
@prefix rr: <a href="http://www.w3.org/ns/r2rml">http://www.w3.org/ns/r2rml">http://www.w3.org/ns/r2rml</a>.
@prefix rml: <a href="http://semweb.mmlab.be/ns/ql">http://semweb.mmlab.be/ns/rml</a>.
@prefix ql: <a href="http://semweb.mmlab.be/ns/ql">http://semweb.mmlab.be/ns/ql</a>.
@prefix xsd: <a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>.
@prefix resource: <a href="https://www.biblioescuela.educamadrid.org/ontologies/Library">https://www.biblioescuela.educamadrid.org/ontologies/Library</a>.
@prefix bldg: <a href="https://www.biblioescuela.educamadrid.org/ontologies/Building">https://www.biblioescuela.educamadrid.org/ontologies/Building</a>.
@prefix vcard: <a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/</a>.
@prefix vcard: <a href="http://www.w3.org/2006/vcard/ns">http://www.w3.org/2006/vcard/ns</a>.
@base <a href="https://www.biblioescuela.educamadrid.org/ontologies">https://www.biblioescuela.educamadrid.org/ontologies</a>.
```

DISEÑO DEL MAPPING: MAPA PRINCIPAL

```
<#schoolMap>
 rml:logicalSource [
   rml:source "./data/colegios-publicos-updated.csv";
   rml:referenceFormulation ql:CSV
 rr:subjectMap [
   rr:template "https://www.biblioescuela.educamadrid.org/resource/School/{PK}":
   rr:termType rr:IRI;
   rr:class bldg:School
 rr:predicateObjectMap [
   rr:predicate vcard:hasUID;
   rr:objectMap [
     rml:reference "PK":
       rr:termType rr:Literal]
 rr:predicateObjectMap [
   rr:predicate foaf:name;
   rr:objectMap [
     rml:reference "NOMBRE";
       rr:termType rr:Literall
 rr:predicateObjectMap [
   rr:predicate sch:hasEducationType:
   rr:objectMap [
      rml:reference "DESCRIPCION";
      rr:datatype rr:Literal:
      rr:termType rr:Literal]
 rr:predicateObjectMap [
   rr:predicate bldg:hasAccessibility;
   rr:objectMap [
     rml:reference "ACCESIBILIDAD" ;
     rr:datatype rr:Literal]
 rr:predicateObjectMap [
   rr:predicate vcard:hasURL:
   rr:objectMap [
     rml:reference "CONTENT-URL" :
     rr:termType rr:Literal;
```

```
<#LibraryMap>
 rml:logicalSource [
   rml:source "./data/bibliobuses-bibliotecas-updated.csv";
   rml:referenceFormulation q1:CSV
 rr:subjectMap
   rr:template "https://www.biblioescuela.educamadrid.org/resource/Library/{PK}":
   rr:termTvpe rr:IRI:
   rr:class bldg:Library
 rr:predicateObjectMap [
   rr:predicate foaf:name;
   rr:objectMap [
     rml:reference "NOMBRE";
       rr:dataType xsd:string]
 rr:predicateObjectMap |
   rr:predicate bldg:hasUID;
   rr:objectMap [
     rml:reference "PK";
     rr:dataType xsd:string]
 rr:predicateObjectMap [
   rr:predicate lib:hasServices:
   rr:objectMap [
     rml:reference "SERVICIOS":
       rr:dataType xsd:stringl
 rr:predicateObjectMap [
   rr:predicate bldg:hasTransport;
   rr:objectMap
      rr:template "https://www.biblioescuela.educamadrid.org/resource/Building/Transport/{PK}":
      rr:termType rr:Literal]
 rr:predicateObjectMap [
   rr:predicate bldg:hasAccessibility;
   rr:objectMap [
      rml:reference "ACCESIBILIDAD";
      rr:dataType xsd:string]
```

DISEÑO DEL MAPPING: UNIÓN DE MAPAS

```
rr:predicateObjectMap [
    rr:predicate bldg:hasLocation;
    rr:objectMap [
        rml:parentTriplesMap <#locationMap>;
        rr:joinCondition [
            rr:child "LOCALIDAD"; rr:parent "LOCALIDAD"];
    ]
];
```

```
rr:predicateObjectMap [
    rr:predicate bldg:hasLocation;
    rr:objectMap [
        rr:template "https://www.biblioescuela.educamadrid.org/resource/Building/Location/{PK}";
        rr:termType rr:Literal]
];
```

DISEÑO DEL MAPPING: RECONCILIACIÓN

- LOCALIDAD
- PROVINCIA
- DISTRITO
- BARRIO

```
rr:predicateObjectMap [
    rr:predicate owl:sameAs;
    rr:objectMap [
        rml:reference "sameAs_LOCALIDAD";
        rr:datatype xsd:anyURI]
].
```

▼ sameAs_LOCALIDAD	PROVINCIA	▼ sameAs_PROVINCIA	CODIGO-POSTAL	COD-BARRIO	BARRIO	▼ sameAs_BARRIO	COD-DISTRITO	DISTRITO	▼ sameAs_DISTRITO
https://www.wikidata.org/wikii/Q2807	Madrid Province	https://www.wikidata.org/wiki/Q24004405	28050	6	Valdefuentes	https://www.wikidata.org/wiki/Q10388714	16	Hortaleza	https://www.wikidata.org/wiki/Q1928529
https://www.wikidata.org/wiki/Q2807	Madrid Province	https://www.wikidata.org/wiki/Q24004405	28038	5	Portazgo	https://www.wikidata.org/wiki/Q18005921	13	Puente de Vallecas	https://www.wikidata.org/wiki/Q2003054
https://www.wikidata.org/wiki/Q2807	Madrid Province	https://www.wikidata.org/wiki/Q24004405	28031	1	Casco Histórico de Vallecas	https://www.wikidata.org/wiki/Q16544370	18	Villa de Vallecas	https://www.wikidata.org/wiki/Q1947988
https://www.wikidata.org/wiki/Q2807	Madrid Province	https://www.wikidata.org/wiki/Q24004405	28022	2	Hellin	https://www.wikidata.org/wiki/Q10294546	20	San Blas	https://www.wikidata.org/wiki/Q2001937
https://www.wikidata.org/wiki/Q2807	Madrid Province	https://www.wikidata.org/wiki/Q24004406	28044	7	Las Águilas	https://www.wikidata.org/wiki/Q5971372	10	Latina	https://www.wikidata.org/wiki/Q794954
https://www.wikidata.org/wiki/Q2807	Madrid Province	https://www.wikidata.org/wiki/Q24004405	28032	1	Casco Histórico de Vicálvaro	https://www.wikidata.org/wiki/Q16544374	19	Vicálvaro	https://www.wikidata.org/wiki/Q589403
https://www.wikidata.org/wiki/Q2807	Madrid Province	https://www.wikidata.org/wiki/Q24004405	28022		Hellin	https://www.wikidata.org/wiki/Q10294546		Hortaleza	https://www.wikidata.org/wiki/Q1928529
https://www.wikidata.org/wiki/Q2807	Madrid Province	https://www.wikidata.org/wiki/Q24004405	28035	3	Peñagrande	https://www.wikidata.org/wiki/Q3319582	8	Fuencarral-El Pardo	https://www.wikidata.org/wiki/Q656196
https://www.wikidata.org/wiki/Q2807	Madrid Province	https://www.wikidata.org/wiki/Q24004405	28047	4	Aluche	https://www.wikidata.org/wiki/Q31140	10	Latina	https://www.wikidata.org/wiki/Q794954

CREACIÓN DEL GRAFO: TTL

```
https://www.biblicescuela.educamadrid.org/resource/Building/Coordinates/7048498>
                       <https://www.biblioescuela.educamadrid.org/ontologies/Building#Coordinates>;
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           <http://www.w3.org/2006/vcard/ns#longitude>
                       "-3.5904597549954724"^^<http://www.w3.org/2001/XMLSchema#float>;
           <a href="https://www.biblicescuela.educamadrid.org/ontologies/Bullding#coordinateX">https://www.biblicescuela.educamadrid.org/ontologies/Bullding#coordinateX</a>
           <a href="https://www.biblicescuela.educamadrid.org/ontologies/Building#coordinate">https://www.biblicescuela.educamadrid.org/ontologies/Building#coordinate</a>>
                       4480145 .
https://www.biblicescuela.educamadrid.org/resource/Building/Province/5136>
                       <https://www.biblioescuela.educamadrid.org/ontologies/Building#Province>;
           <http://www.w3.org/2002/07/owl#sameAs>
                        "https://www.wikidata.org/wiki/Q24004405"^^<http://www.w3.org/2001/XMLSchema#anyURI>;
           <a href="http://xmlns.com/foaf/0.1/name">http://xmlns.com/foaf/0.1/name</a>
                       "Madrid Province" AA http://woor.w3.org/2001/XMLSchematstring> .
<a href="https://www.biblioescuela.educamadrid.org/resource/Building/Coordinates/5170">https://www.biblioescuela.educamadrid.org/resource/Building/Coordinates/5170</a>
                       <https://www.biblioescuela.educamadrid.org/ontologies/Building#Coordinates>;
           <a href="http://www.w3.org/2006/vcard/ns#Latitude">http://www.w3.org/2006/vcard/ns#Latitude</a>
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           <a href="http://www.w3.org/2006/vcard/ns#Longitude">http://www.w3.org/2006/vcard/ns#Longitude</a>
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<a href="https://www.biblioescuela.educamadrid.org/resource/Building/Address/5205">https://www.biblioescuela.educamadrid.org/resource/Building/Address/5205</a>
                       <a href="https://www.biblioescuela.educamadrid.org/ontologies/Building#Address">https://www.biblioescuela.educamadrid.org/ontologies/Building#Address</a>;
           <http://xmlns.com/foaf/0.1/name>
                       "CALLE-MARQUES DE VIANA-NUM-58" > 1 //www.w3.org/2001/XMLSchema#string> ;
           <a href="https://www.biblicescuela.educamadrid.org/ontologies/Building#hasNumType">https://www.biblicescuela.educamadrid.org/ontologies/Building#hasNumType</a>
                       "NUM"^^<http://www.w3.org/2001/XMLSchema#string>;
           <a href="https://www.biblicescuela.educamadrid.org/ontologies/Building#hasNumber">https://www.biblicescuela.educamadrid.org/ontologies/Building#hasNumber</a>
                       "58"^^<http://www.w3.org/ns/r2rml#Literal>;
           <a href="https://www.biblioescuela.educamadrid.org/ontologies/Building#hasStreetName">https://www.biblioescuela.educamadrid.org/ontologies/Building#hasStreetName</a>
                       "MARQUES DE VIANA"^^<http://www.w3.org/2001/XMLSchema#string> ;
           <a href="https://www.biblioescuela.educamadrid.org/ontologies/Building#hasZipCode">https://www.biblioescuela.educamadrid.org/ontologies/Building#hasZipCode</a>
                       "28039"^^<http://www.w3.org/ns/r2rml#Literal>;
           <a href="https://www.biblioescuela.educamadrid.org/ontologies/Building#hasvialClass">https://www.biblioescuela.educamadrid.org/ontologies/Building#hasvialClass</a>
                       "CALLE" ^ < http://www.w3.org/2001/XMLSchema#string> .
<a href="https://www.biblioescuela.educamadrid.org/resource/School/5111">
                       <a href="https://www.biblioescuela.educamadrid.org/ontologies/Building#School">https://www.biblioescuela.educamadrid.org/ontologies/Building#School</a>;
           <a href="http://www.w3.org/2006/vcard/ns#hasUID">http://www.w3.org/2006/vcard/ns#hasUID>
                       "5111"^^<http://www.w3.org/2001/XMLSchema#string>;
           <a href="http://www.w3.org/2006/vcard/ns#hasURL">http://www.w3.org/2006/vcard/ns#hasURL></a>
                       "http://www.madrid.es/sites/v/index.isp?vgnextchannel-bfa48ab43d6bb410VgnVCM100000171f5
           <http://xmlns.com/foaf/0.1/name>
```

```
<http://belio.linkeddata.es/> .
https://www.biblicescuela.educamadrid.org/resource/Building/Neighbourhood/1748>
                    <https://www.biblicescuela.educamadrid.org/ontologies/Building#Neighbourhood>;
         (http://www.w3.org/2002/07/owl#sameAs>)
                     "(same as wikidata barrio| "^^<http://www.w3.org/2001/XMLSchema#string> ;
         <http://xmlns.com/foaf/0.1/name>
                     "CASCO HISTORICO VALLECAS"^^<a href="http://www.w3.org/2001/XMLSchema#string">http://www.w3.org/2001/XMLSchema#string></a>.
https://www.biblioescuela.educamadrid.org/resource/Building/Location/1770>
                     <http://www.w3.org/2006/vcard/ns#Location> :
         <https://www.biblicescuela.educamadrid.org/ontologies/Building#hasDistrict>
                     <a href="https://www.biblioescuela.educamadrid.org/resource/Building/District/1770">https://www.biblioescuela.educamadrid.org/resource/Building/District/1770</a>;
         <a href="https://www.biblicescuela.educamadrid.org/ontologies/Building#hasLocality">https://www.biblicescuela.educamadrid.org/ontologies/Building#hasLocality</a>
                      <a href="https://www.biblicescuela.educamadrid.org/resource/Building/Locality/1770">https://www.biblicescuela.educamadrid.org/resource/Building/Locality/1770</a>;
         <https://www.biblicescuela.educamadrid.org/ontologies/Building#hasProvince>
                      "(https://www.biblicescuela.educamadrid.org/resource/Building/Province/1770)"^"<http://www.w3.org/2001/XML&chematstring>
https://www.biblioescuela.educamadrid.org/resource/Building/Locality/1792>
                    <https://www.biblioescuela.educamadrid.org/ontologies/Building#Locality> ;
         <a href="http://www.w3.org/2002/07/owl#sameAs">http://www.w3.org/2002/07/owl#sameAs></a>
                     "https://wikidata.org/entity/02807"^^<http://www.w3.org/2001/XMLSchema#string> ;
         <http://xmlns.com/foaf/0.1/name>
                     "Madrid"^*<a href="http://www.w3.org/2001/XMLSchema#string">http://www.w3.org/2001/XMLSchema#string></a>.
(https://www.biblicescuela.educamadrid.org/resource/Building/Coordinates/11737758>
                    <https://www.biblioescuela.educamadrid.org/ontologies/Building#Coordinates> ;
         chttp://www.w3.org/2006/vcard/ns#Latitude>
                      "40.35075302554859"^<chttp://www.w3.org/2001/XMLSchema#string> :
         <http://www.w3.org/2006/vcard/ns#Longitude>
                     "-3.6871905881900373 *^^ <a href="http://www.w3.org/2001/XMLSchematstring">http://www.w3.org/2001/XMLSchematstring</a>;
          <a href="https://www.biblicescuela.educamadrid.org/ontologies/Building#coordinateX">https://www.biblicescuela.educamadrid.org/ontologies/Building#coordinateX</a>>
                     "441642"^^ <a href="http://www.w3.org/2001/XMLSchema#string">http://www.w3.org/2001/XMLSchema#string>;</a>
          <a href="https://www.biblicescuela.educamadrid.org/ontologies/Building#coordinate">https://www.biblicescuela.educamadrid.org/ontologies/Building#coordinate">https://www.biblicescuela.educamadrid.org/ontologies/Building#coordinate</a>
                     "4466915"^^chttp://www.w3.org/2001/XMT.Schemaistring> .
https://www.biblicescuela.educamadrid.org/resource/Building/Address/1790>
                     <https://www.biblioescuela.educamadrid.org/ontologies/Building#Address>;
         <a href="https://www.biblicescuela.educamadrid.org/ontologies/Building#hasNumfype">https://www.biblicescuela.educamadrid.org/ontologies/Building#hasNumfype</a>
                     "V"^^<http://www.w3.org/2001/XMLSchema#string>;
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                     "38"^^<http://www.w3.org/2001/XMLSchema#string> ;
         <a href="https://www.biblicescuela.educamadrid.org/ontologies/Building#hasStreetName">https://www.biblicescuela.educamadrid.org/ontologies/Building#hasStreetName</a>
                     "MONFORTE DE LEMOS" ^ <a href="http://www.w3.org/2001/XMLSchema#string">http://www.w3.org/2001/XMLSchema#string</a>;
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CREACIÓN DEL GRAFO: NT

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MUCHAS GRACIAS POR SU ATENCIÓN