Semantic Web Grupo 10

Gustavo Adolfo Ramírez Franco Luis Guillermo Rozas Elias Alberto Ramos Gutiérrez Alfredo Anadon Baro

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Assignment 1 - Dataset

- Actividades_eventos_Madrid.csv
- Licencia abierta
- Requisitos de aplicación



Assignment 2 - Ontology

- Estrategia de nombres:
 - https://eventosmadrid.es/
 - https://eventosmadrid.es/individual
 - https://eventosmadrid.es/clase
 - https://eventosmadrid.es/propiedad
- Ontología

```
@prefix : <https://www.eventosmadrid.es/> .
@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.eventosmadrid.es/> .
<https://www.eventosmadrid.es/> rdf:type owl:Ontology .
<https://www.eventosmadrid.es/> rdf:type owl:Ontology .
### http://www.w3.org/2003/01/geo/wgs84 pos#latitude
<a href="http://www.w3.org/2003/01/geo/wgs84">http://www.w3.org/2003/01/geo/wgs84</a> pos#latitude> rdf:type rdfs:Datatype .
### http://www.w3.org/2003/01/geo/wgs84_pos#longitude
<a href="http://www.w3.org/2003/01/geo/wgs84">http://www.w3.org/2003/01/geo/wgs84</a> pos#longitude> rdf:type rdfs:Datatype .
```

Assignment 3 - RDF

Transformaciones al CSV:

- Eliminar filas vacías
- Eliminar columnas redundantes
- Resolución de distritos de Madrid y de instalaciones
- Dividir fecha: horas y días
- Exportar a RDF

```
"columnName": "DISTRITO",

"config": {

"mode": "standard-service",

"service": "https://tools.wmflabs.org/openrefine-wikidata/en/api",

"identifierSpace": "http://www.wikidata.org/entity/",

"schemaSpace": "http://www.wikidata.org/prop/direct/",

"type": {

"id": "Q3032114",

"name": "district of Madrid"
}.
```

```
"columnName": "FECHA",

"expression": "grel:value.split(\" \")[0]",

"onError": "keep-original",

"repeat": false,

"repeatCount": 10,

"description": "Text transform on cells in column FECHA
```

Assignment 4 - Data linking

- Operations-with-links.json
- EventosMadridRDF-with-links.rdf

```
"columnName": "Column 16",
"config": {
    "mode": "standard-service",
    "service": "https://tools.wmflabs.org/openrefine-wikidata/en/api",
    "identifierSpace": "http://www.wikidata.org/entity/",
    "schemaSpace": "http://www.wikidata.org/prop/direct/",
    "type": {
        "id": "Q1329623",
        "name": "cultural centre"
    },
```

```
"op": "core/recon-clear-similar-cells",

"engineConfig": {

   "facets": [],
   "mode": "row-based"
},
   "columnName": "Column 16",
   "similarValue": "Biblioteca Pública Municipal La Elipa (Ciudad Lineal)",
   "description": "Clear recon data for cells containing \"Biblioteca Pública
},
```

```
<https://www.eventosmadrid.es/549> owl:sameAs "https://www.wikidata.org/wikiQ56426480" .
<https://www.eventosmadrid.es/550> owl:sameAs "https://www.wikidata.org/wikiQ28662866" .
<https://www.eventosmadrid.es/551> owl:sameAs "https://www.wikidata.org/wikiQ56426764" .
```

