Contents

Mapping created using Juma editor.

```
@prefix rr: <http://www.w3.org/ns/r2rml#> .
@prefix rrf: <http://kdeg.scss.tcd.ie/ns/rrf#> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
@prefix csv: <http://www.semanticweb.org/KDE#> .
```

Using dataset: MultiUse_Community_Centres.csv

```
<#TriplesMapTriplesMap_MultiUse_Coordinate>
rr:logicalTable [
 rr:tableName "MultiUse_Community_Centres";
];
```

Defining Class: GeoCoordinates

```
 rr:subjectMap [
  rr:template "http://www.example.org/multiuse/coordinate/{OBJECTID}";
  rr:class csv:GeoCoordinates;
 ];
```

Defining Predicates to Objects Mapping for Class: GeoCoordinates

```
rr:predicateObjectMap [
 rr:predicateMap [
  rr:constant csv:hasY;
 ];

 rr:objectMap [
  rr:column "Y";
  rr:termType rr:Literal;
  rr:datatype xsd:decimal;
 ];
```

```
];
rr:predicateObjectMap [
 rr:predicateMap [
  rr:constant csv:hasX;
 ];

  rr:objectMap [
   rr:column "X";
   rr:termType rr:Literal;
   rr:datatype xsd:decimal;
  ];
];
.
```

Using dataset: MultiUse_Community_Centres.csv

```
<#TriplesMapTriplesMap_MultiUse_ContactInfo>
rr:logicalTable [
 rr:tableName "MultiUse_Community_Centres";
];
```

Defining Class: CommunicationInfo

```
 rr:subjectMap [
   rr:template "http://www.example.org/multiuse/contact/{OBJECTID}";
   rr:class csv:CommunicationInfo;
 ];
```

Defining Predicates to Objectss Mapping for Class: CommunicationInfo

```
rr:predicateObjectMap [
 rr:predicateMap [
  rr:constant csv:hasAddress;
 ];
```

```
    rr:objectMap [
     rr:column "ADDRESS";
     rr:termType rr:Literal;
    ];
  ];
  rr:predicateObjectMap [
   rr:predicateMap [
     rr:constant csv:hasPhone;
   ];

    rr:objectMap [
     rr:column "PHONENUMBER";
     rr:termType rr:Literal;
    ];
  ];
  .
```

Using dataset: MultiUse_Community_Centres.csv

```
 <#TriplesMapTriplesMap_MultiUse_ContactInfo_SocialMedia>
 rr:logicalTable [
   rr:tableName "MultiUse_Community_Centres";
 ];
```

Defining Class: OnlinePresence

```
  rr:subjectMap [
     rr:template "http://www.example.org/multiuse/contact/socialmedia/{OBJECTID}";
     rr:class csv:OnlinePresence;
  ];
```

Defining Predicates to Objectss Mapping for Class: OnlinePresence

```
 rr:predicateObjectMap [
```

```
  rr:predicateMap [
    rr:constant csv:hasWebsite;
  ];

   rr:objectMap [
    rr:column "WEBSITE";
    rr:termType rr:Literal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasEmail;
  ];

   rr:objectMap [
    rr:column "EMAIL";
    rr:termType rr:Literal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasTwitterLink;
  ];

   rr:objectMap [
    rr:column "TWITTER";
    rr:termType rr:Literal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
```

```
    rr:constant csv:hasFacebookLink;
   ];

    rr:objectMap [
    rr:column "FACEBOOK";
    rr:termType rr:Literal;
   ];
];
.
```

Using dataset: MultiUse_Community_Centres.csv

```
<#TriplesMapTriplesMap_MultiUse_Facilities>
rr:logicalTable [
  rr:tableName "MultiUse_Community_Centres";
];
```

Defining Class: Facilities

```
 rr:subjectMap [
    rr:template "http://www.example.org/multiuse/facilities/{OBJECTID}";
    rr:class csv:Facilities;
 ];
```

Defining Predicates to Objectss Mapping Class: Facilities

```
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasCoffeeDock;
  ];

    rr:objectMap [
    rr:column "COFFEEDOCK";
    rr:termType rr:Literal;
   ];
```

```
];
rr:predicateObjectMap [
 rr:predicateMap [
  rr:constant csv:hasPlayArea;
 ];

  rr:objectMap [
   rr:column "PLAYAREA";
   rr:termType rr:Literal;
  ];
];
rr:predicateObjectMap [
 rr:predicateMap [
  rr:constant csv:hasMeetingRooms;
 ];

  rr:objectMap [
   rr:column "MEETINGROOMS";
   rr:termType rr:Literal;
  ];
];
.
```

Using dataset: MultiUse_Community_Centres

```
<#TriplesMapTriplesMap_MultiUse_Activities>
rr:logicalTable [
 rr:tableName "MultiUse_Community_Centres";
];
```

Using Class: Activities

```
 rr:subjectMap [
```

```
    rr:template "http://www.example.org/multiuse/activities/{OBJECTID}";
    rr:class csv:Activities;
  ];
```

Defining Predicates to Objects Mapping Class: Activities

```
 rr:predicateObjectMap [
  rr:predicateMap [
   rr:constant csv:hasSummaryActivities;
  ];

   rr:objectMap [
    rr:column "SUMMARYACTIVITIES";
    rr:termType rr:Literal;
   ];
 ];
 rr:predicateObjectMap [
  rr:predicateMap [
   rr:constant csv:hasPrimaryActivity;
  ];

   rr:objectMap [
    rr:column "PRIMARYACTIVITY";
    rr:termType rr:Literal;
   ];
 ];
 .
```

Using Dataset MultiUseCommunityCentre.csv

```
 <#TriplesMapTriplesMap_MultiUse_Community_Centres>
 rr:logicalTable [
  rr:tableName "MultiUse_Community_Centres";
 ];
```

Defining Class name: MultiUseCommunityCentre

```
 rr:subjectMap [
    rr:template "http://www.example.org/multiuse/record/{OBJECTID}";
    rr:class csv: MultiUseCommunityCentre ;
 ];
```

Defining Predicates to Object Mapping for Class: MultiUseCommunityCentre

```
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasName;
  ];

   rr:objectMap [
    rr:column "NAME";
    rr:termType rr:Literal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasDisabilityAccess;
  ];

   rr:objectMap [
    rr:column "DISABILITYACCESS";
    rr:termType rr:Literal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:isSdccOwned;
```

```
  ];

   rr:objectMap [
    rr:column "SDCCOWNED";
    rr:termType rr:Literal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasObjectId;
  ];

   rr:objectMap [
    rr:column "OBJECTID";
    rr:termType rr:Literal;
    rr:datatype xsd:integer;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasParkingFacility;
  ];

   rr:objectMap [
    rr:column "PARKING";
    rr:termType rr:Literal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:creator;
```

```
  ];

   rr:objectMap [
    rr:column "CREATOR";
    rr:termType rr:Literal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:creationdate;
  ];

   rr:objectMap [
    rr:column "CREATIONDATE";
    rr:termType rr:Literal;
    rr:datatype xsd:date;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasCoordinates;
  ];

   rr:objectMap [
    rr:parentTriplesMap <#TriplesMapTriplesMap_MultiUse_Coordinate>;
    rr:joinCondition [
     rr:child "OBJECTID";
     rr:parent "OBJECTID";
   ];
  ];
];
```

```
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasFacilities;
  ];

   rr:objectMap [
    rr:parentTriplesMap <#TriplesMapTriplesMap_MultiUse_Facilities>;
    rr:joinCondition [
     rr:child "OBJECTID";
     rr:parent "OBJECTID";
   ];
  ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasContactInfo;
  ];

   rr:objectMap [
    rr:parentTriplesMap <#TriplesMapTriplesMap_MultiUse_ContactInfo>;
    rr:joinCondition [
     rr:child "OBJECTID";
     rr:parent "OBJECTID";
   ];
  ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasOnlinePresence;
  ];
```

```
    rr:objectMap [
     rr:parentTriplesMap <#TriplesMapTriplesMap_MultiUse_ContactInfo_SocialMedia>;
     rr:joinCondition [
      rr:child "OBJECTID";
      rr:parent "OBJECTID";
     ];
    ];
   ];
  rr:predicateObjectMap [
   rr:predicateMap [
     rr:constant csv:hasActivityType;
   ];

    rr:objectMap [
     rr:parentTriplesMap <#TriplesMapTriplesMap_MultiUse_Activities>;
     rr:joinCondition [
      rr:child "OBJECTID";
      rr:parent "OBJECTID";
     ];
    ];
  ];
  .
```

```
   @prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
   @prefix csv: <http://www.semanticweb.org/KDE#> .
```

Using dataset: Sports_and_Recreation_Clubs.csv

```
 <#TriplesMapTriplesMap_Sports_ContactInfo>
 rr:logicalTable [
   rr:tableName "Sports_and_Recreation_Clubs";
 ];
```

Using Class name: CommunicationInfo

```
 rr:subjectMap [
    rr:template "http://www.example.org/sports/contact/{OBJECTID}";
    rr:class csv:CommunicationInfo;
 ];
```

Defining Predicates to Objectss Mapping for Class: CommunicationInfo

```
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasAddress;
  ];

   rr:objectMap [
    rr:column "ADDRESS";
    rr:termType rr:Literal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasPhone;
  ];

   rr:objectMap [
    rr:column "PHONENUMBER";
    rr:termType rr:Literal;
   ];
];
.
```

Using dataset: Sports_and_Recreation_Clubs.csv

```
<#TriplesMapTriplesMap_Sports_ContactInfo_Social_Media>
rr:logicalTable [
 rr:tableName "Sports_and_Recreation_Clubs";
];
```

Defining Class: OnlinePresence

```
 rr:subjectMap [
    rr:template "http://www.example.org/sports/contact/socialmedia/{OBJECTID}";
    rr:class csv:OnlinePresence;
 ];
```

Defining Predicates to Objectss Mapping for Class: OnlinePresence

```
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasWebsite;
  ];

   rr:objectMap [
    rr:column "WEBSITE";
    rr:termType rr:Literal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasEmail;
  ];

   rr:objectMap [
    rr:column "EMAIL";
    rr:termType rr:Literal;
```

```
    ];
  ];
  rr:predicateObjectMap [
   rr:predicateMap [
     rr:constant csv:hasTwitterLink;
   ];

    rr:objectMap [
     rr:column "TWITTER";
     rr:termType rr:Literal;
    ];
  ];
  rr:predicateObjectMap [
   rr:predicateMap [
     rr:constant csv:hasFacebookLink;
   ];

    rr:objectMap [
     rr:column "FACEBOOK";
     rr:termType rr:Literal;
    ];
  ];
  .
```

Using dataset: Sports_and_Recreation_Clubs.csv

```
 <#TriplesMapTriplesMap_Sports_Coordinate>
 rr:logicalTable [
   rr:tableName "Sports_and_Recreation_Clubs";
 ];
```

Defining Class name: GeoCoordinates

```
 rr:subjectMap [
    rr:template "http://www.example.org/sports/coordinate/{OBJECTID}";
    rr:class csv:GeoCoordinates;
 ];
```

Defining Predicates to Objects Mapping for Class: GeoCoordinates

```
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasY;
  ];

   rr:objectMap [
    rr:column "Y";
    rr:termType rr:Literal;
    rr:datatype xsd:decimal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasX;
  ];

   rr:objectMap [
    rr:column "X";
    rr:termType rr:Literal;
    rr:datatype xsd:decimal;
   ];
];
.
```

Using dataset: Sports_and_Recreation_Clubs.csv

```
<#TriplesMapTriplesMap_Sports_Facilities>
rr:logicalTable [
  rr:tableName "Sports_and_Recreation_Clubs";
];
```

Defining Class name: Facilities

```
 rr:subjectMap [
    rr:template "http://www.example.org/sports/facilities/{OBJECTID}";
    rr:class csv:Facilities;
 ];
```

Defining Predicates to Object Mapping for Class: Facilities

```
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasCoffeeDock;
  ];

   rr:objectMap [
    rr:column "COFFEEDOCK";
    rr:termType rr:Literal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasPlayArea;
  ];

   rr:objectMap [
    rr:column "PLAYAREA";
```

```
    rr:termType rr:Literal;
   ];
 ];
 rr:predicateObjectMap [
  rr:predicateMap [
   rr:constant csv:hasMeetingRooms;
  ];

   rr:objectMap [
    rr:column "MEETINGROOMS";
    rr:termType rr:Literal;
   ];
 ];
 .
```

Using dataset: Sports_and_Recreation_Clubs.csv

```
 <#TriplesMapTriplesMap_Sports_Activities>
 rr:logicalTable [
  rr:tableName "Sports_and_Recreation_Clubs";
 ];
```

Defining Class name: Activities

```
 rr:subjectMap [
    rr:template "http://www.example.org/sports/activities/{OBJECTID}";
    rr:class csv:Activities;
 ];
```

Defining Predicates to Object Mapping for Class: Activities

```
 rr:predicateObjectMap [
  rr:predicateMap [
   rr:constant csv:hasSummaryActivities;
  ];
```

```
   rr:objectMap [
    rr:column "SUMMARYACTIVITIES";
    rr:termType rr:Literal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasPrimaryActivity;
  ];

   rr:objectMap [
    rr:column "PRIMARYACTIVITY";
    rr:termType rr:Literal;
   ];
];
.
```

Using dataset: Sports_and_Recreation_Clubs.csv

```
<#TriplesMapTriplesMap_Sports_and_Recreation_Clubs>
rr:logicalTable [
  rr:tableName "Sports_and_Recreation_Clubs";
];
```

Defining Class name: SportsAndRecreationClubs

```
 rr:subjectMap [
    rr:template "http://www.example.org/sports/record/{OBJECTID}";
    rr:class csv:SportsAndRecreationClubs;
 ];
```

Defining Predicates to Object Mapping for Class: SportsAndRecreationClubs

```
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasName;
  ];

   rr:objectMap [
    rr:column "NAME";
    rr:termType rr:Literal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasDisabilityAccess;
  ];

   rr:objectMap [
    rr:column "DISABILITYACCESS";
    rr:termType rr:Literal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:isSdccOwned;
  ];

   rr:objectMap [
    rr:column "SDCCOWNED";
    rr:termType rr:Literal;
   ];
];
```

```
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasObjectId;
  ];

   rr:objectMap [
    rr:column "OBJECTID";
    rr:termType rr:Literal;
    rr:datatype xsd:integer;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasParkingFacility;
  ];

   rr:objectMap [
    rr:column "PARKING";
    rr:termType rr:Literal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:creator;
  ];

   rr:objectMap [
    rr:column "CREATOR";
    rr:termType rr:Literal;
   ];
];
```

```
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:creationdate;
  ];

   rr:objectMap [
    rr:column "CREATIONDATE";
    rr:termType rr:Literal;
    rr:datatype xsd:date;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasCoordinates;
  ];

   rr:objectMap [
    rr:parentTriplesMap <#TriplesMapTriplesMap_Sports_Coordinate>;
    rr:joinCondition [
     rr:child "OBJECTID";
     rr:parent "OBJECTID";
   ];
  ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasFacilities;
  ];

   rr:objectMap [
    rr:parentTriplesMap <#TriplesMapTriplesMap_Sports_Facilities>;
```

```
    rr:joinCondition [
     rr:child "OBJECTID";
     rr:parent "OBJECTID";
    ];
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasContactInfo;
  ];

   rr:objectMap [
    rr:parentTriplesMap <#TriplesMapTriplesMap_Sports_ContactInfo>;
    rr:joinCondition [
     rr:child "OBJECTID";
     rr:parent "OBJECTID";
    ];
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasOnlinePresence;
  ];

   rr:objectMap [
    rr:parentTriplesMap <#TriplesMapTriplesMap_Sports_ContactInfo_Social_Media>;
    rr:joinCondition [
     rr:child "OBJECTID";
     rr:parent "OBJECTID";
    ];
   ];
```

```
 ];
 rr:predicateObjectMap [
  rr:predicateMap [
   rr:constant csv:hasActivityType;
  ];

   rr:objectMap [
    rr:parentTriplesMap <#TriplesMapTriplesMap_Sports_Activities>;
    rr:joinCondition [
     rr:child "OBJECTID";
     rr:parent "OBJECTID";
   ];
  ];
 ];
 .
```

```
  @prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
  @prefix csv: <http://www.semanticweb.org/KDE#> .
```

Using dataset: Accessible_Parking_Spaces.csv

```
 <#TriplesMapTriplesMap_Parking_Coordinate>
 rr:logicalTable [
  rr:tableName "Accessible_Parking_Spaces";
 ];
```

Defining Class name: GeoCoordinates

```
  rr:subjectMap [
    rr:template "http://www.example.org/parking/coordinate/{OBJECTID}";
    rr:class csv:GeoCoordinates;
  ];
```

Defining Predicates to Object Mapping for Class: GeoCoordinates

```
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasY;
  ];

   rr:objectMap [
    rr:column "Y";
    rr:termType rr:Literal;
    rr:datatype xsd:decimal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasX;
  ];

   rr:objectMap [
    rr:column "X";
    rr:termType rr:Literal;
    rr:datatype xsd:decimal;
   ];
];
.
```

Using dataset: Accessible_Parking_Spaces.csv

```
<#TriplesMapTriplesMap_Accessible_Parking_Spaces>
rr:logicalTable [
  rr:tableName "Accessible_Parking_Spaces";
];
```

Defining Class name: ParkingSpace

```
 rr:subjectMap [
    rr:template "http://www.example.org/parking/record/{OBJECTID}";
    rr:class csv:ParkingSpace;
 ];
```

Defining Predicates to Object Mapping for Class: ParkingSpace

```
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:numberOfSpaces;
  ];

   rr:objectMap [
    rr:column "NOOFSPACES";
    rr:termType rr:Literal;
    rr:datatype xsd:integer;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasId;
  ];

   rr:objectMap [
    rr:column "OBJECTID";
    rr:termType rr:Literal;
    rr:datatype xsd:integer;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
```

```
    rr:constant csv:hasLocationName;
  ];

   rr:objectMap [
    rr:column "LOCATION";
    rr:termType rr:Literal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasSpaceType;
  ];

   rr:objectMap [
    rr:column "SPACETYPE";
    rr:termType rr:Literal;
   ];
];
rr:predicateObjectMap [
  rr:predicateMap [
    rr:constant csv:hasCoordinates;
  ];

   rr:objectMap [
    rr:parentTriplesMap <#TriplesMapTriplesMap_Parking_Coordinate>;
    rr:joinCondition [
     rr:child "OBJECTID";
     rr:parent "OBJECTID";
   ];
  ];
];
```