

Semantic GIS, GeoSPARQL

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1 GraphDB

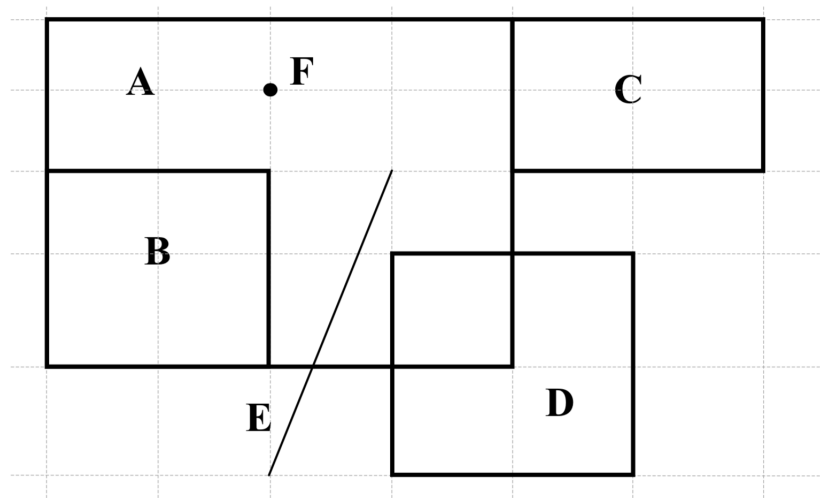
GeoSPARQL has full support in GraphDB.

1.1 Get ready

Download and import data into Graph DB – http://graphdb.ontotext.com/documentation/8.4/free/_downloads/geosparql-example.rdf and http://graphdb.ontotext.com/documentation/8.4/free/_downloads/geosparql-simple-f.rdf and enable GeoSPARQL.

```
PREFIX : <http://www.ontotext.com/plugins/geosparql#>
```

```
INSERT DATA {  
  _:s :enabled "true" .  
}
```



1.2 Spatial filters

Select:

- all features that touches each other,
- all features overlapping rectangle D,
- closest feature to the point

```
"<http://www.opengis.net/def/crs/OGC/1.3/CRS84>  
  Point(-83.1 34.4)"^^geo:wktLiteral
```

1.3 Spatial queries

Try following tasks:

- Create feature AC as a union of features A and C,
- find all features closer than 10 kilometers to line E.