



Jena (Apache)

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Jena

- HP, Apache
- <http://jena.apache.org/>
- RDF Triple Store
- In memory or in database
- Fuseki SPARQL endpoint

Load

```

Model model = ModelFactory.createDefaultModel();

InputStream in = FileManager.get().open("data.ttl");

model.read(in, null, "TTL");

```

Query

```

String queryString = "select * where { ?x ?p ?y }";

Query query = QueryFactory.create(queryString);

QueryExecution qe = QueryExecutionFactory.create(query, model);

ResultSet results = qe.execSelect();

ResultSetFormatter.output(results, ResultsFormat.FMT_RS_XML);

```

Result

```

for (; results.hasNext(); ) {
    QuerySolution sol = results.next();
    Literal lit = sol.getLiteral("y");
    System.out.println("y: " + lit.getString());
}

```

Update

```

String q = "prefix foaf: <http://foaf.org/> "
    + "create graph foaf:g1 ;"
    + "insert data {graph foaf:g1 {"
    + "<John> foaf:knows <Jim>, <James>}}";

Model model = ModelFactory.createDefaultModel();
Dataset ds = DatasetFactory.create(model);

UpdateAction.parseExecute(q, ds);

```