5.6.2 RIF-BLD

The RIF Basic Logic Dialect basically corresponds to Horn logic with equality plus

- data types and built ins, and
- frames.

RIF-BLD, like all other RIF variants, is expected to support a uniform set of commonly used datatypes, predicates, and functions. This set includes data types (such as *integer, boolean, string, date*), "built-in" predicates (such as *numeric-greater-than, starts-with, date-less-than*), and functions (such as *numeric-subtract, replace, hours-from-time*) ranging over these data types.

As an example, suppose we wish to express a rule stating that an actor is a movie star if he has starred in more than three successful movies, produced in a span of at least five years. And a film is considered successful if it has received critical acclaim (say, a rating higher than 8 out of 10) or was financially successful (produced more than \$100 million in ticket sales). These rules should be evaluated against the DBpedia data set.

These rules can be expressed in RIF-BLD as follows:

```
Document(
Prefix(func <a href="http://www.w3.org/2007/rif-builtin-function#">http://www.w3.org/2007/rif-builtin-function#</a>
Prefix(pred <a href="http://www.w3.org/2007/rif-builtin-predicate#">http://www.w3.org/2007/rif-builtin-predicate#</a>
Prefix(rdfs <a href="http://www.w3.org/2000/01/rdf-schema#">http://www.w3.org/2000/01/rdf-schema#</a>
Prefix(imdbrel <a href="http://example.com/imdbrelation#">http://example.com/imdbrelation#</a>
Prefix(ibdbrel <a href="http://example.com/ibdbrelation#">http://example.com/ibdbrelation#</a>
Group(
Forall ?Actor ?Film ?Year (

If And( dbpedia:starring(?Film ?Actor)

dbpedia:dateOfFilm(?Film ?Year)
```