**DSE 250 11.4.2017**

<http://dbpedia.org/sparql>

Wikipedia search using SPARQL

Select movie & director

Ie. select ?movie ?dir where { ?movie dbo:director ?dir}

Result: <http://dbpedia.org/sparql?default-graph-uri=http%3A%2F%2Fdbpedia.org&query=select+%3Fmovie+%3Fdir+where+%7B+%3Fmovie+dbo%3Adirector+%3Fdir%7D%0D%0A&format=text%2Fhtml&CXML_redir_for_subjs=121&CXML_redir_for_hrefs=&timeout=30000&debug=on&run=+Run+Query>+

Get number of actors in the movie (aggregation ie. SQL)

Ie. select ?movie count (?actor) where { ?movie dbo:starring ?actor } group by ?movie

Result: <http://dbpedia.org/sparql?default-graph-uri=http%3A%2F%2Fdbpedia.org&query=select+%3Fmovie+count+%28%3Factor%29+where+%7B+%3Fmovie+dbo%3Astarring+%3Factor+%7D+group+by+%3Fmovie%0D%0A&format=text%2Fhtml&CXML_redir_for_subjs=121&CXML_redir_for_hrefs=&timeout=30000&debug=on&run=+Run+Query>+

Find movies that don’t have a director listed

Ie. select ?movie where { ?movie rdf:type dbo:Film . optional {?movie dbo:director ?dir } filter (!bound (?dir))}

Result: <http://dbpedia.org/sparql?default-graph-uri=http%3A%2F%2Fdbpedia.org&query=select+%3Fmovie+where+%7B+%3Fmovie+rdf%3Atype+dbo%3AFilm+.+optional+%7B%3Fmovie+dbo%3Adirector+%3Fdir+%7D+filter+%28%21bound+%28%3Fdir%29%29%7D&format=text%2Fhtml&CXML_redir_for_subjs=121&CXML_redir_for_hrefs=&timeout=30000&debug=on&run=+Run+Query>+

Movies without a title

Ie. select distinct ?movie where { ?movie dbo:director ?dir . optional {?movie dbo:title ?title } filter (!bound (?title))}

Result: <http://dbpedia.org/sparql?default-graph-uri=http%3A%2F%2Fdbpedia.org&query=select+%3Fmovie+where+%7B+%3Fmovie+dbo%3Adirector+%3Fdir+.+optional+%7B%3Fmovie+dbo%3Atitle+%3Ftitle+%7D+filter+%28%21bound+%28%3Ftitle%29%29%7D&format=text%2Fhtml&CXML_redir_for_subjs=121&CXML_redir_for_hrefs=&timeout=30000&debug=on&run=+Run+Query>+

Get voice actors per movie (must use union)

Ie. select ?movie ?actor

where {

?movie rdf:type dbo:Film .

{?movie dbo:starring ?actor }

UNION

{ ?movie dbo:voice ?actor}

}

Result: <http://dbpedia.org/sparql?default-graph-uri=http%3A%2F%2Fdbpedia.org&query=select+%3Fmovie+%3Factor+%0D%0Awhere+%7B+%0D%0A%3Fmovie+rdf%3Atype+dbo%3AFilm+.%0D%0A%7B%3Fmovie+dbo%3Astarring+%3Factor+%7D%0D%0AUNION%0D%0A%7B+%3Fmovie+dbo%3Avoice+%3Factor%7D%0D%0A%7D%0D%0A&format=text%2Fhtml&CXML_redir_for_subjs=121&CXML_redir_for_hrefs=&timeout=30000&debug=on&run=+Run+Query>+

Get number of voice actors per movie (must use union and aggregation)

Ie. select ?movie count(?actor) as ?cnt

where {

?movie rdf:type dbo:Film .

{?movie dbo:starring ?actor }

UNION

{ ?movie dbo:voice ?actor}

}

Result: <http://dbpedia.org/sparql?default-graph-uri=http%3A%2F%2Fdbpedia.org&query=select+%3Fmovie+count%28%3Factor%29+as+%3Fcnt%0D%0Awhere+%7B+%0D%0A%3Fmovie+rdf%3Atype+dbo%3AFilm+.%0D%0A%7B%3Fmovie+dbo%3Astarring+%3Factor+%7D%0D%0AUNION%0D%0A%7B+%3Fmovie+dbo%3Avoice+%3Factor%7D%0D%0A%7D%0D%0A&format=text%2Fhtml&CXML_redir_for_subjs=121&CXML_redir_for_hrefs=&timeout=30000&debug=on&run=+Run+Query>+

Ie. select dictinct ?movie ?countV ?countA

where {

?movie rdf:type dbo:Film .

{select ?movie count(?v) as ?countV where {?movie dbo:voice ?v} }.

{select ?movie count(?a) as ?countA where {?movie dbo:starring ?a} }

}

**JSON**