

Part I

Sparql Endpoint :

<https://sparql.nextprot.org/>

1 Graphs research

1.1 Queries for graphs and results

graph all_graphs_included.sparql : 1 results

graph graphs_with_a_triple_min.sparql : 7 results

graph graphs_with_rdf_type.sparql : 4 results

The graphs_with_a_triple_min.sparql returns more results (7)

1.2 List of graphs selected

graph 1 - <http://www.openlinksw.com/schemas/virtrdf#>

graph 2 - <http://nextprot.org/rdf>

graph 3 - <http://www.w3.org/2002/07/owl#>

graph 4 - <http://localhost:8890/sparql>

graph 5 - urn:activitystreams-owl:map

graph 6 - <http://localhost:8890/DAV/>

graph 7 - <http://www.w3.org/ns/ldp#>

2 Querying <https://sparql.nextprot.org/>

2.1 Results by query

Query class.sparql - distinct results : 176

Query property.sparql - distinct results : 356

Query label_class.sparql - distinct results : 0

Query label_property.sparql - distinct results : 23

Query subclass.sparql - distinct results : 140

Query subproperty.sparql - distinct results : 2

Query property_domain.sparql - distinct results : 24

Query property_range.sparql - distinct results : 23

Query indi_range_property.sparql - distinct results : 438

Query indi_domain_property.sparql - distinct results : 1204

Query entity_type.sparql - distinct results : 1048899

Total of unique results found 1051285 on <https://sparql.nextprot.org/>

2.2 Error Log

- Error on graph http://www.openlinksw.com/schemas/virtrdf# query/label_class.sparql : ['EndPointInternalError: The endpoint returned the HTTP status code 500']
- Error on graph http://nextprot.org/rdf query/label_class.sparql : ['EndPointInternalError: The endpoint returned the HTTP status code 500']
- Error on graph http://www.w3.org/2002/07/owl# query/label_class.sparql : ['EndPointInternalError: The endpoint returned the HTTP status code 500']
- Error on graph http://localhost:8890/sparql query/label_class.sparql : ['EndPointInternalError: The endpoint returned the HTTP status code 500']
- Error on graph urn:activitystreams-owl:map query/label_class.sparql : ['EndPointInternalError: The endpoint returned the HTTP status code 500']
- Error on graph http://localhost:8890/DAV/ query/label_class.sparql : ['EndPointInternalError: The endpoint returned the HTTP status code 500']
- Error on graph http://www.w3.org/ns/ldp# query/label_class.sparql : ['EndPointInternalError: The endpoint returned the HTTP status code 500']

code 500']

- Number of errors : 7

3 Process before indexation

3.1 JSON results conversion after distinct operation

All string results were converted into valid json results

4 Partition in separated queries

The volume of 1051285 results does not need query partition

5 Elastic Search Indexation

Index 'class' already exists and will be completed
Storing 176 results in index 'class' took 0.692 secs

Index 'property' already exists and will be completed
Storing 356 results in index 'property' took 0.316 secs

Index 'label_property' already exists and will be completed
Storing 23 results in index 'label_property' took 0.197 secs

Index 'subclass' has been successfully created
Storing 140 results in index 'subclass' took 0.866 secs

Index 'subproperty' has been successfully created
Storing 2 results in index 'subproperty' took 1.772 secs

Index 'property_domain' has been successfully created
Storing 24 results in index 'property_domain' took 3.509 secs

Index 'property_range' has been successfully created
Storing 23 results in index 'property_range' took 4.04 secs

Index 'indi_range_property' already exists and will be completed
Storing 438 results in index 'indi_range_property' took 0.1 secs

Index 'indi_domain_property' already exists and will be completed
Storing 1204 results in index 'indi_domain_property' took 0.406 secs

Query subpartition 1 for entity_type
Total of results to store : 1048899
Partition size : 200000
Number of subpartitions : 6
Timesleep : 2 secs

Index 'entity_type' already exists and will be completed
Storing 200000 results in index 'entity_type' took 57.351 secs

Index 'entity_type' already exists and will be completed
Storing 200000 results in index 'entity_type' took 79.063 secs

Index 'entity_type' already exists and will be completed
Storing 200000 results in index 'entity_type' took 54.268 secs

Index 'entity_type' already exists and will be completed
Storing 200000 results in index 'entity_type' took 46.137 secs

Index 'entity_type' already exists and will be completed
Storing 200000 results in index 'entity_type' took 79.446 secs

Index 'entity_type' already exists and will be completed
Storing 48899 results in index 'entity_type' took 5.735 secs

6 Getting results and indexing times

Getting results for <https://sparql.nextprot.org/> took 3 min (228.71 secs)
Indexation for <https://sparql.nextprot.org/> took 6 min (379.356 secs)