

Part I

Sparql Endpoint :

<https://data.open.ac.uk/query>

1 Graphs research

1.1 Queries for graphs and results

graph all_graphs_included.sparql : 41 results

graph graphs_with_a_triple_min.sparql : 41 results

graph graphs_with_rdf_type.sparql : 38 results

The graphs_with_a_triple_min.sparql returns more results (41)

1.2 List of graphs selected

graph 1 - <http://data.open.ac.uk/context/about>

graph 2 - <http://data.open.ac.uk/context/ahrc>

graph 3 - <http://data.open.ac.uk/context/audioboo>

graph 4 - <http://data.open.ac.uk/context/bbc>

graph 5 - <http://data.open.ac.uk/context/buildings>

graph 6 - <http://data.open.ac.uk/context/course/archive>

graph 7 - <http://data.open.ac.uk/context/datagovuk>

graph 8 - <http://data.open.ac.uk/context/events/computing>

graph 9 - <http://data.open.ac.uk/context/events/kmi>

graph 10 - <http://data.open.ac.uk/context/kis>

graph 11 - <http://data.open.ac.uk/context/kmiplanet>

graph 12 - <http://data.open.ac.uk/context/led>

graph 13 - <http://data.open.ac.uk/context/library>

graph 14 - <http://data.open.ac.uk/context/meta>

graph 15 - <http://data.open.ac.uk/context/musow>

graph 16 - <http://data.open.ac.uk/context/news/crc>

graph 17 - <http://data.open.ac.uk/context/oldcourses>

graph 18 - <http://data.open.ac.uk/context/ontology>

graph 19 - <http://data.open.ac.uk/context/openartsarchive>

graph 20 - <http://data.open.ac.uk/context/openlearn>

graph 21 - <http://data.open.ac.uk/context/openlearn2>

graph 22 - <http://data.open.ac.uk/context/openlearnexplore>

graph 23 - <http://data.open.ac.uk/context/org/crc>
graph 24 - <http://data.open.ac.uk/context/oro>
graph 25 - <http://data.open.ac.uk/context/people/crc>
graph 26 - <http://data.open.ac.uk/context/people/kmifoaf>
graph 27 - <http://data.open.ac.uk/context/people/profiles>
graph 28 - <http://data.open.ac.uk/context/podcast>
graph 29 - <http://data.open.ac.uk/context/qualification>
graph 30 - <http://data.open.ac.uk/context/qualification/archive>
graph 31 - <http://data.open.ac.uk/context/red>
graph 32 - <http://data.open.ac.uk/context/redperssa>
graph 33 - <http://data.open.ac.uk/context/technologies/crc>
graph 34 - <http://data.open.ac.uk/context/topic>
graph 35 - <http://data.open.ac.uk/context/topic/itunesu>
graph 36 - <http://data.open.ac.uk/context/videofinder>
graph 37 - <http://data.open.ac.uk/context/xcri>
graph 38 - <http://data.open.ac.uk/context/youtube>
graph 39 - <http://data.open.ac.uk/context/kmifoaf>
graph 40 - <http://data.open.ac.uk/context/leda>
graph 41 - <http://www.bigdata.com/rdf#nullGraph>

2 Querying <https://data.open.ac.uk/query>

2.1 Results by query

Query class.sparql - distinct results : 189

Query property.sparql - distinct results : 1316

Query label_class.sparql - distinct results : 4

Query label_property.sparql - distinct results : 2

Query subclass.sparql - distinct results : 0

Query subproperty.sparql - distinct results : 0

Query property_domain.sparql - distinct results : 0

Query property_range.sparql - distinct results : 0

Query indi_range_property.sparql - distinct results : 914

Query indi_domain_property.sparql - distinct results : 2403

Query entity_type.sparql - distinct results : 714483

Total of unique results found 719311 on <https://data.open.ac.uk/query>

2.2 Error Log

No errors encountered during the process

- Number of errors : 0

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 719311 results does not need query partition

5 Elastic Search Indexation

Index 'class' has been successfully created

Storing 189 results in index 'class' took 7.59 secs

Index 'property' has been successfully created

Storing 1316 results in index 'property' took 1.922 secs

Index 'label_class' has been successfully created

Storing 4 results in index 'label_class' took 1.915 secs

Index 'label_property' has been successfully created

Storing 2 results in index 'label_property' took 1.767 secs

Index 'indi_range_property' has been successfully created

Storing 914 results in index 'indi_range_property' took 3.476 secs

Index 'indi_domain_property' has been successfully created

Storing 2403 results in index 'indi_domain_property' took 3.931 secs

Query subpartition 1 for entity_type

Total of results to store : 714483

Partition size : 200000

Number of subpartitions : 4

Timesleep : 2 secs

Index 'entity_type' has been successfully created

Storing 200000 results in index 'entity_type' took 35.076 secs

Index 'entity_type' already exists and will be completed

Storing 200000 results in index 'entity_type' took 66.491 secs

Index 'entity_type' already exists and will be completed

Storing 200000 results in index 'entity_type' took 53.39 secs

Index 'entity_type' already exists and will be completed

Storing 114483 results in index 'entity_type' took 48.763 secs

6 Getting results and indexing times

Getting results for <https://data.open.ac.uk/query> took 5 min (324.376 secs)

Indexation for <https://data.open.ac.uk/query> took 4 min (249.353 secs)