

GraphDB

SPARQL Query & Update

Editor only

Editor and results

Results only

Local Terminology

Standard Terminology

1

PREFIX db: <http://data.local/rdf/ontology/>

2

PREFIX dbo: <http://um-cds/ontologies/databaseontology/>

3

PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>

4

5

SELECT DISTINCT ?AYA ?biological_sex_value

6

WHERE {

7

?AYA db:has_column ?biological_sex .

8

?biological_sex rdf:type db:survaya.alg_v1b .

9

?biological_sex dbo:has_cell ?biological_sex_cell .

10

?biological_sex_cell dbo:has_value ?biological_sex_value .

11

}

12

LIMIT 5

Run

keyboard shortcuts

Download as

Filter query results

Compact view

Hide row numbers

Showing results from 0 to 5 of 5. Query took 0.1s, moments ago.

AYA	biological_sex_value
http://data.local/rdf/data/survaya/0	"1.0"
http://data.local/rdf/data/survaya/1	"1.0"
http://data.local/rdf/data/survaya/2	"1.0"
http://data.local/rdf/data/survaya/3	"1.0"
http://data.local/rdf/data/survaya/4	"0.0"

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1

PREFIX dbo: <http://um-cds/ontologies/databaseontology/>

2

PREFIX ncit: <http://ncicb.nci.nih.gov/xml/owl/EVS/Thesaurus.owl#>

3

PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>

4

PREFIX sio: <http://semanticscience.org/resource/>

5

6

SELECT DISTINCT ?AYA ?biological_sex_value

7

WHERE {

8

?AYA sio:SIO_000235 ?medical_characteristics .

9

?medical_characteristics sio:SIO_000008 ?biological_sex .

10

?biological_sex rdf:type ncit:C28421 .

11

?biological_sex dbo:has_cell ?biological_sex_cell .

12

?biological_sex_cell rdf:type ?biological_sex_value .

13

14

FILTER STRSTARTS(STR(?biological_sex_value),

15

"http://ncicb.nci.nih.gov/xml/owl/EVS/Thesaurus.owl#")

16

FILTER (!REGEX(STR(ncit:C28421), STR(?biological_sex_value))) .

17

}

18

19

LIMIT 5

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AYA	biological_sex_value
http://data.local/rdf/data/survaya/0	ncit:C16576
http://data.local/rdf/data/survaya/1	ncit:C16576
http://data.local/rdf/data/survaya/2	ncit:C16576
http://data.local/rdf/data/survaya/3	ncit:C16576
http://data.local/rdf/data/survaya/4	ncit:C20197

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Supplementary Figure 4: Graph database output demonstrating the interoperability of our synthetic SURVAYA data.