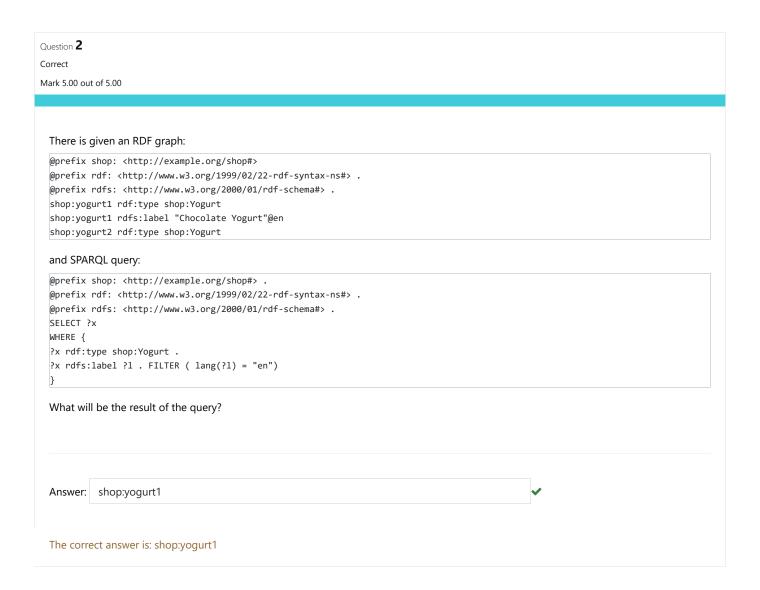Home / My courses / WIiT / Sztuczna Inteligencja/Artificial Intelligence / Stacjonarne / I stopień / Semestr 7 [WIiT-SI-st-I]

/ Semantic web and social networks / SPARQL query language / Test - SPARQL

Started on	Monday, 16 October 2023, 9:05 AM
State	Finished
Completed on	Monday, 16 October 2023, 9:11 AM
Time taken	6 mins 6 secs
Grade	**15.00** out of 15.00 (**100**%)

Question **1**

Correct

Mark 5.00 out of 5.00

SPARQL query of CONSTRUCT type:

○ returns a table of results

○ returns a Boolean value indicating whether the query pattern finds a match or not

◉ returns an RDF graph constructed by substituting the variables in the set of triple templates ✔

Your answer is correct.

The correct answer is:
returns an RDF graph constructed by substituting the variables in the set of triple templates

Question **2**

Correct

Mark 5.00 out of 5.00

There is given an RDF graph:

```
@prefix shop: <http://example.org/shop#>
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
shop:yogurt1 rdf:type shop:Yogurt
shop:yogurt1 rdfs:label "Chocolate Yogurt"@en
shop:yogurt2 rdf:type shop:Yogurt
```

and SPARQL query:

```
@prefix shop: <http://example.org/shop#> .
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
SELECT ?x
WHERE {
?x rdf:type shop:Yogurt .
?x rdfs:label ?l . FILTER ( lang(?l) = "en")
}
```

What will be the result of the query?

Answer: shop:yogurt1   ✔

The correct answer is: shop:yogurt1

Question **3**

Correct

Mark 5.00 out of 5.00

Which of the following queries returns countries from Europe or Asia?

○
```
SELECT ?country WHERE {
?country rdf:type ex:Country .
?country ex:continent ex:Europe .
?country ex:continent ex:Asia .

}
```

◉
```
SELECT ?country WHERE {
{ ?country rdf:type ex:Country; ex:continent ex:Europe . }
UNION
{ ?country a ex:Country; ex:continent ex:Asia . }
}
```
✔

○
```
SELECT ?country WHERE {
?country a ex:Country .
OPTIONAL { ?country ex:continent ex:Europe . }
OPTIONAL { ?country ex:continent ex:Asia . }
```

Your answer is correct.

The correct answer is:
```
SELECT ?country WHERE {
{ ?country rdf:type ex:Country; ex:continent ex:Europe . }
UNION
{ ?country a ex:Country; ex:continent ex:Asia . }
}
```