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| Project : SPARQL Queries |

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| Web Datamining & Semantics |

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| Emine BOUCHIBA  Yassine CHENIK |  |



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| Launching Fuseki |

1. In Windows Command Line :

cd C:/apache-jena-fuseki-4.7.0

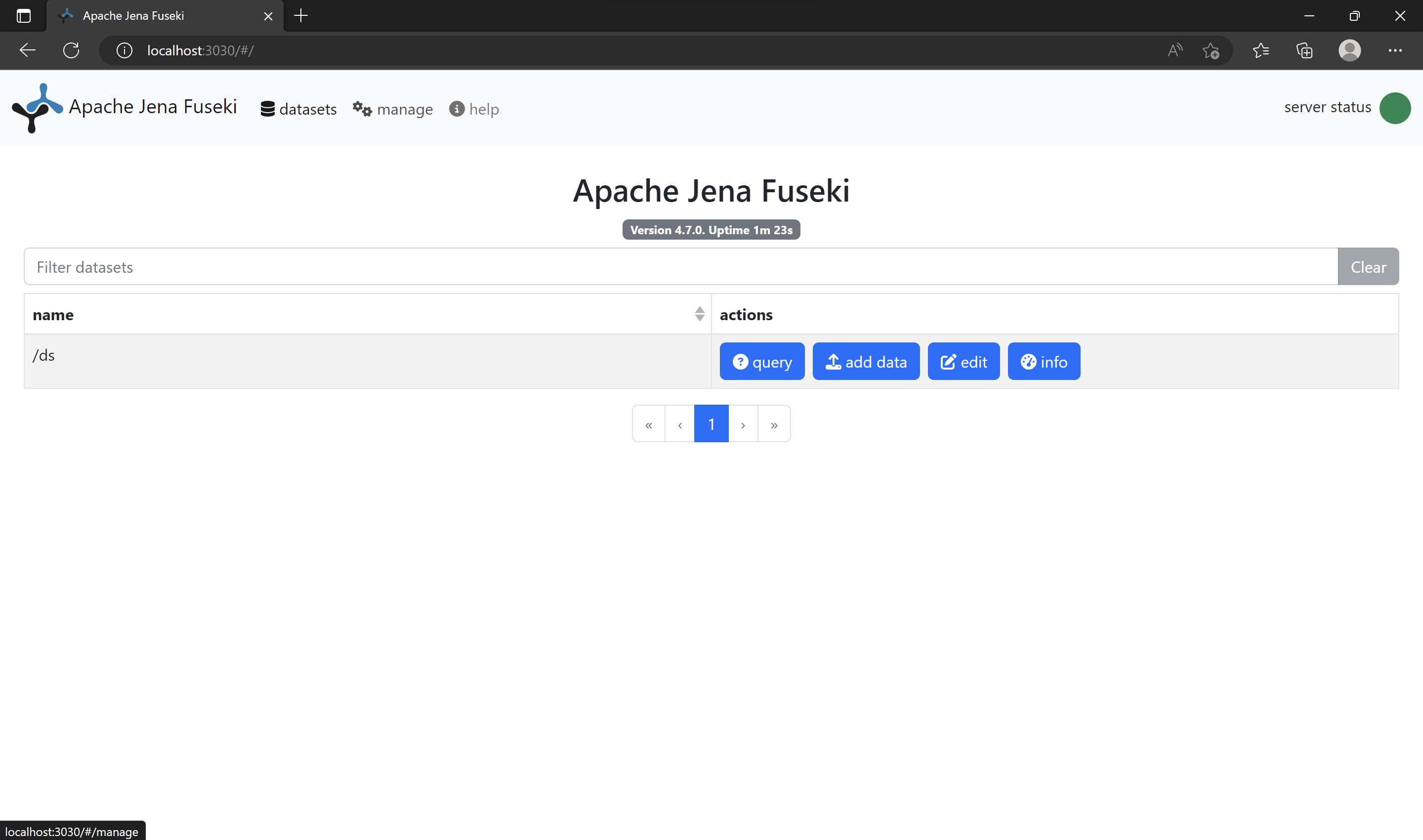
fuseki-server --update --mem /ds

1. On Internet :

We should go to this link : http://localhost:3030

1. In Fuseki Interface :

* We clicked on the « Manage data » button :



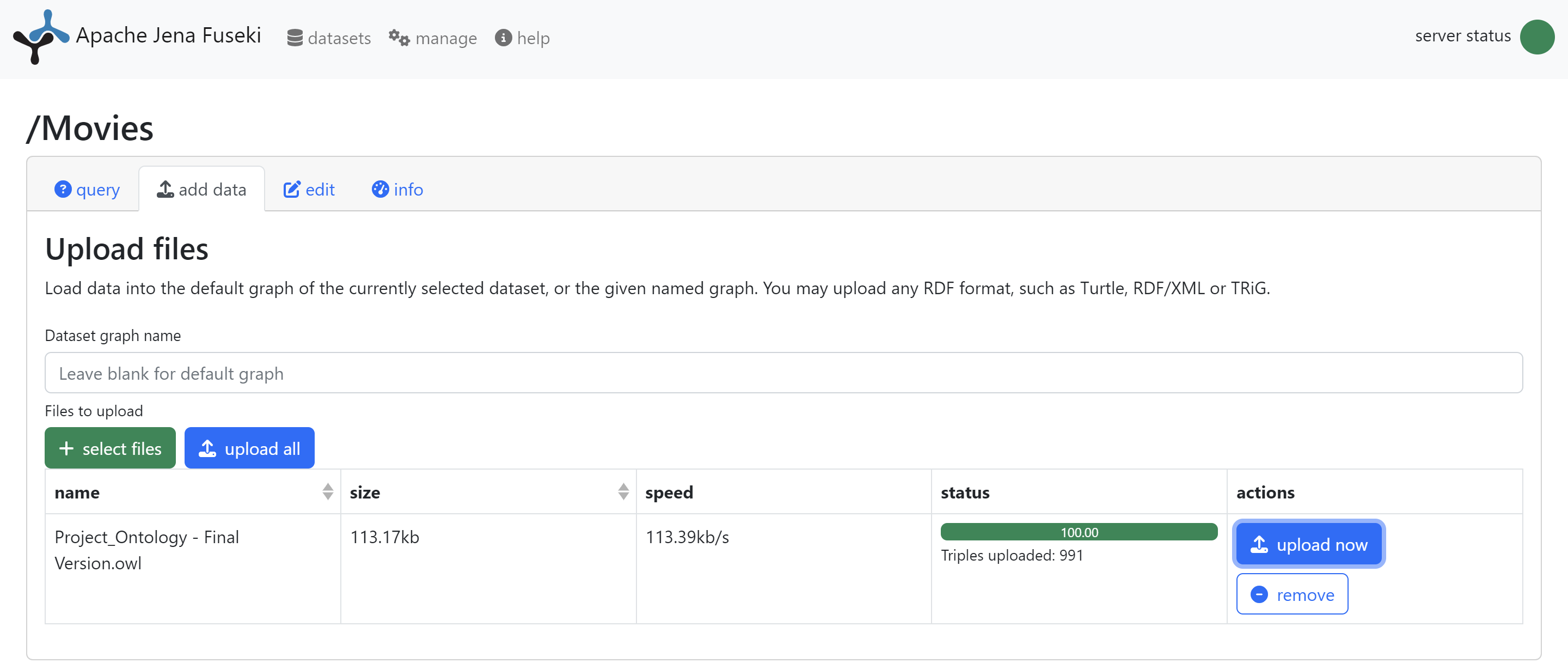
* Then we clicked on the « New Dataset » section and on « Persistent » :

Une image contenant texte

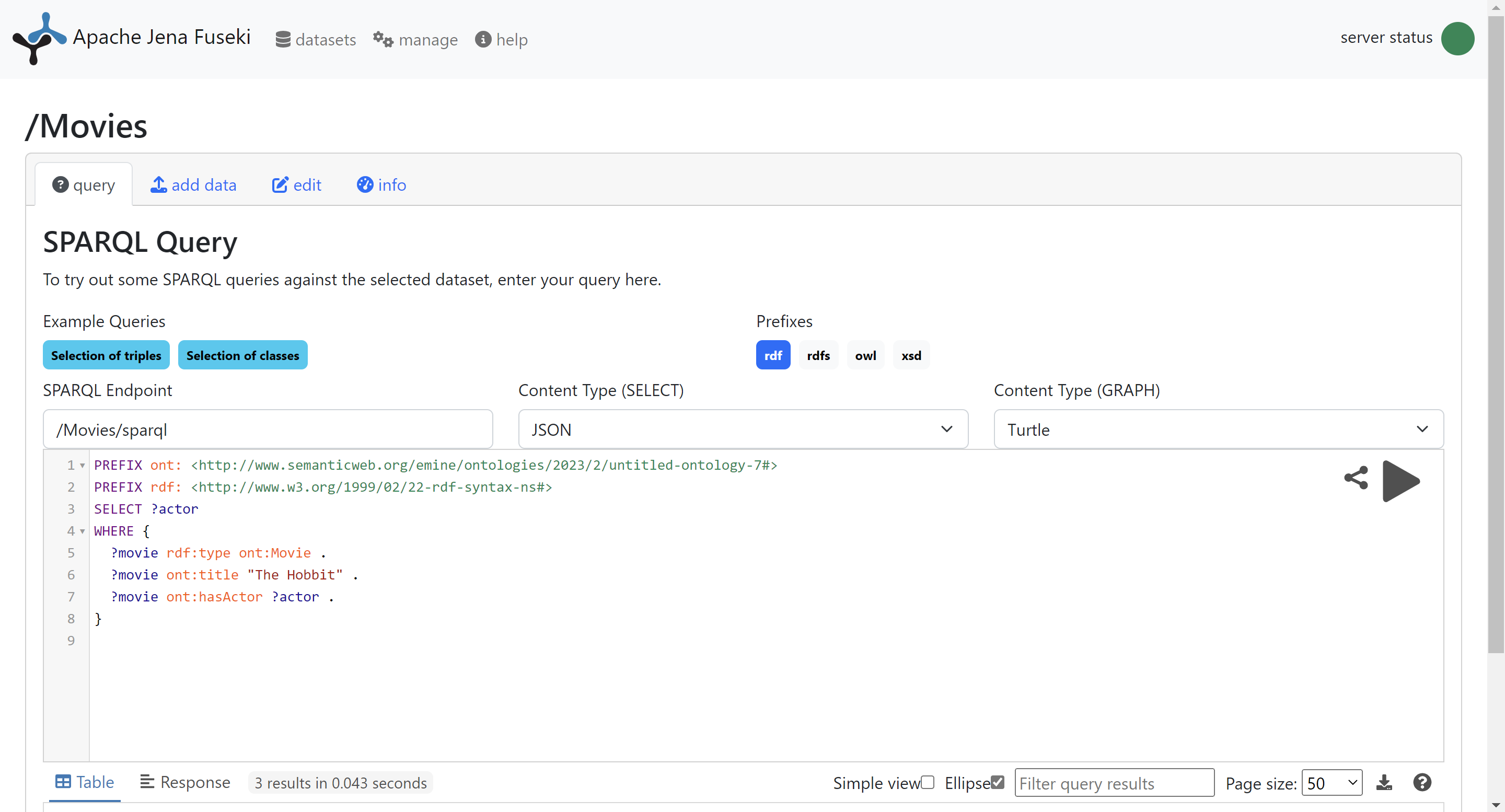
Description générée automatiquement

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| Launching Fuseki |

* Then we added our Ontology :



* At this step, we were able to make queries :



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| Query 1 |

* List the instances of the class Actor
* Query :

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

PREFIX : <http://www.semanticweb.org/emine/ontologies/2023/2/untitled-ontology-7#>

SELECT ?actor

WHERE {

?actor rdf:type :Actor

}

* *Output :*

*Une image contenant texte

Description générée automatiquement*

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| Query 2 |

* List the name of all Thriller movies. For each one, display its director.
* Query :

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

PREFIX ont: <http://www.semanticweb.org/emine/ontologies/2023/2/untitled-ontology-7#>

SELECT ?movie ?director\_name

WHERE {

?movie ont:hasGenre ont:Thriller .

?movie ont:hasDirector ?director .

?director ont:name ?director\_name .

}

* *Output :*

*Une image contenant texte

Description générée automatiquement*

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| Query 3 |

* List the name of all Crime Thriller movies.
* Query :

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

PREFIX ont: <http://www.semanticweb.org/emine/ontologies/2023/2/untitled-ontology-7#>

SELECT ?movie\_name

WHERE {

?movie rdf:type ont:Movie .

?movie ont:hasGenre ont:Thriller .

?movie ont:hasGenre ont:Crime .

?movie ont:title ?movie\_name .

}

* *Output :*

Une image contenant texte

Description générée automatiquement

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| Query 4 |

* List the name of Actors older than 51 years.
* Query :

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

PREFIX ont: <http://www.semanticweb.org/emine/ontologies/2023/2/untitled-ontology-7#>

SELECT ?actor\_name

WHERE {

?actor rdf:type ont:Actor .

?actor ont:age ?age .

FILTER(?age > 51) .

?actor ont:name ?actor\_name .

}

* *Output :*

Une image contenant texte

Description générée automatiquement

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| Query 5 |

* List of movies that are played in theater for a specific day and where and until when
* Query :

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

PREFIX ont: <http://www.semanticweb.org/emine/ontologies/2023/2/untitled-ontology-7#>

SELECT ?movie\_title ?theater\_name ?from\_date ?to\_date

WHERE {

?movie rdf:type ont:Movie .

?movie ont:title ?movie\_title .

?movie ont:year 2016 .

?theater rdf:type ont:Theater .

?theater ont:isPlaying ?movie .

?theater ont:theater\_name ?theater\_name .

?movie ont:from\_date ?from\_date .

?movie ont:to\_date ?to\_date .

}

* *Output :*

Une image contenant texte

Description générée automatiquement

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| Proposal Query 1 |

* Query that contains at least 2 Optional Graph Patterns
* Query :

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

PREFIX ont: <http://www.semanticweb.org/emine/ontologies/2023/2/untitled-ontology-7#>

SELECT ?movie\_title ?director\_name ?writer\_name ?actor\_name

WHERE {

?movie rdf:type ont:Movie .

?movie ont:title ?movie\_title .

OPTIONAL {

?movie ont:hasActor ?actor .

?actor ont:name ?actor\_name .

}

OPTIONAL {

?movie ont:hasDirector ?director .

?director ont:name ?director\_name .

}

OPTIONAL {

?movie ont:hasWriter ?writer .

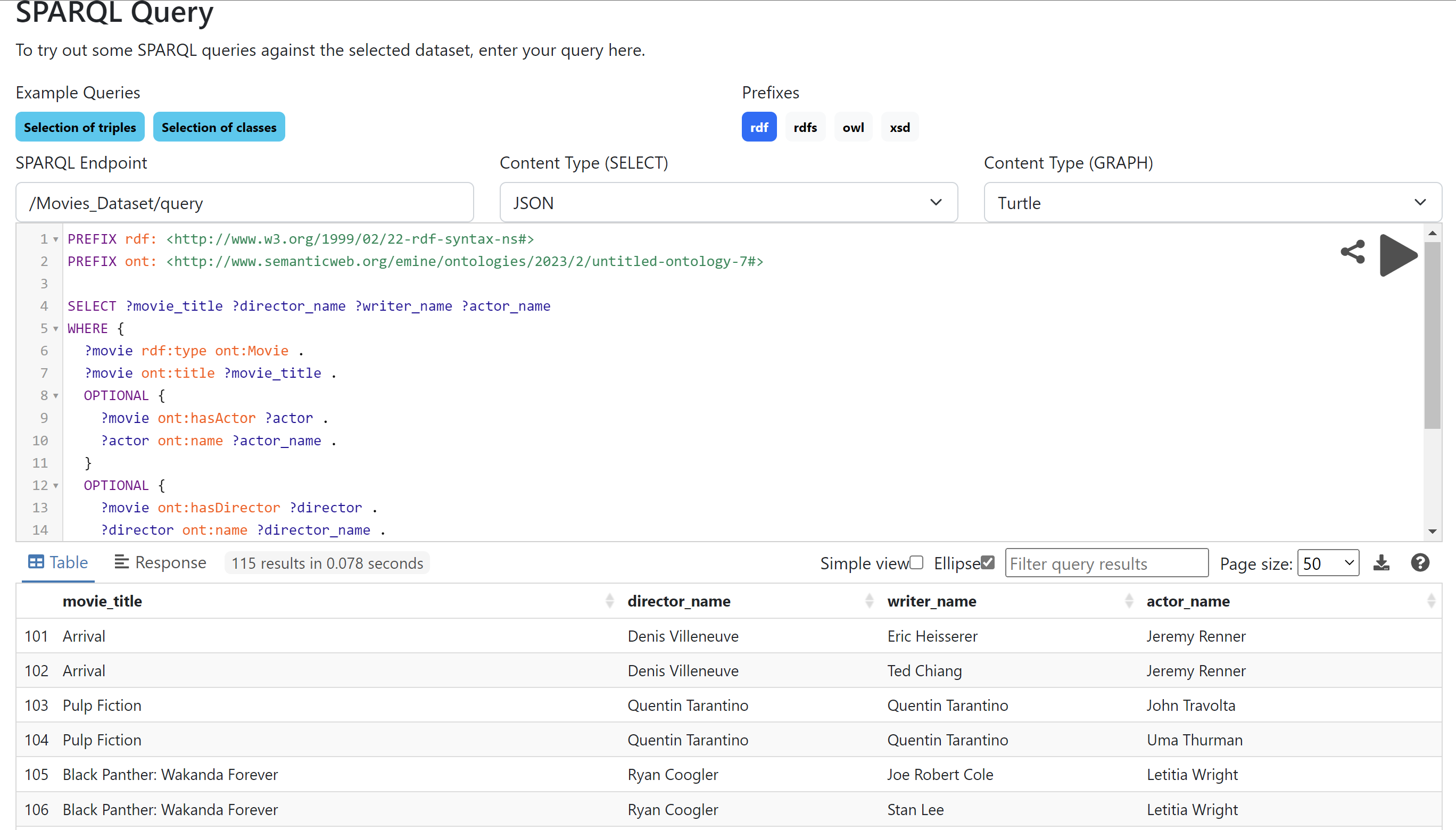
?writer ont:name ?writer\_name .

}

}

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| Proposal Query 1 |

* *Output :*



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| Proposal Query 2 |

* Query that contains at least 2 alternatives and conjunctions
* Query :

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

PREFIX ont: <http://www.semanticweb.org/emine/ontologies/2023/2/untitled-ontology-7#>

SELECT ?title ?actor ?director ?genre

WHERE {

{

?movie rdf:type ont:Movie .

?movie ont:title ?title .

?movie ont:hasGenre ?genre .

FILTER (?genre = ont:Thriller || ?genre = ont:Horror)

?movie ont:hasActor ?actor .

?movie ont:hasDirector ?director .

?director ont:name ?director\_name .

?actor ont:name ?actor\_name .

FILTER (?director\_name = "Quentin Tarantino" && ?actor\_name = "Uma Thurman")

}

UNION

{

?movie rdf:type ont:Movie .

?movie ont:title ?title .

?movie ont:hasGenre ont:Comedy .

?movie ont:hasActor ?actor .

?movie ont:hasDirector ?director .

?director ont:name ?director\_name .

?actor ont:name ?actor\_name .

FILTER (?director\_name = "Quentin Tarantino" && ?actor\_name = "Uma Thurman")

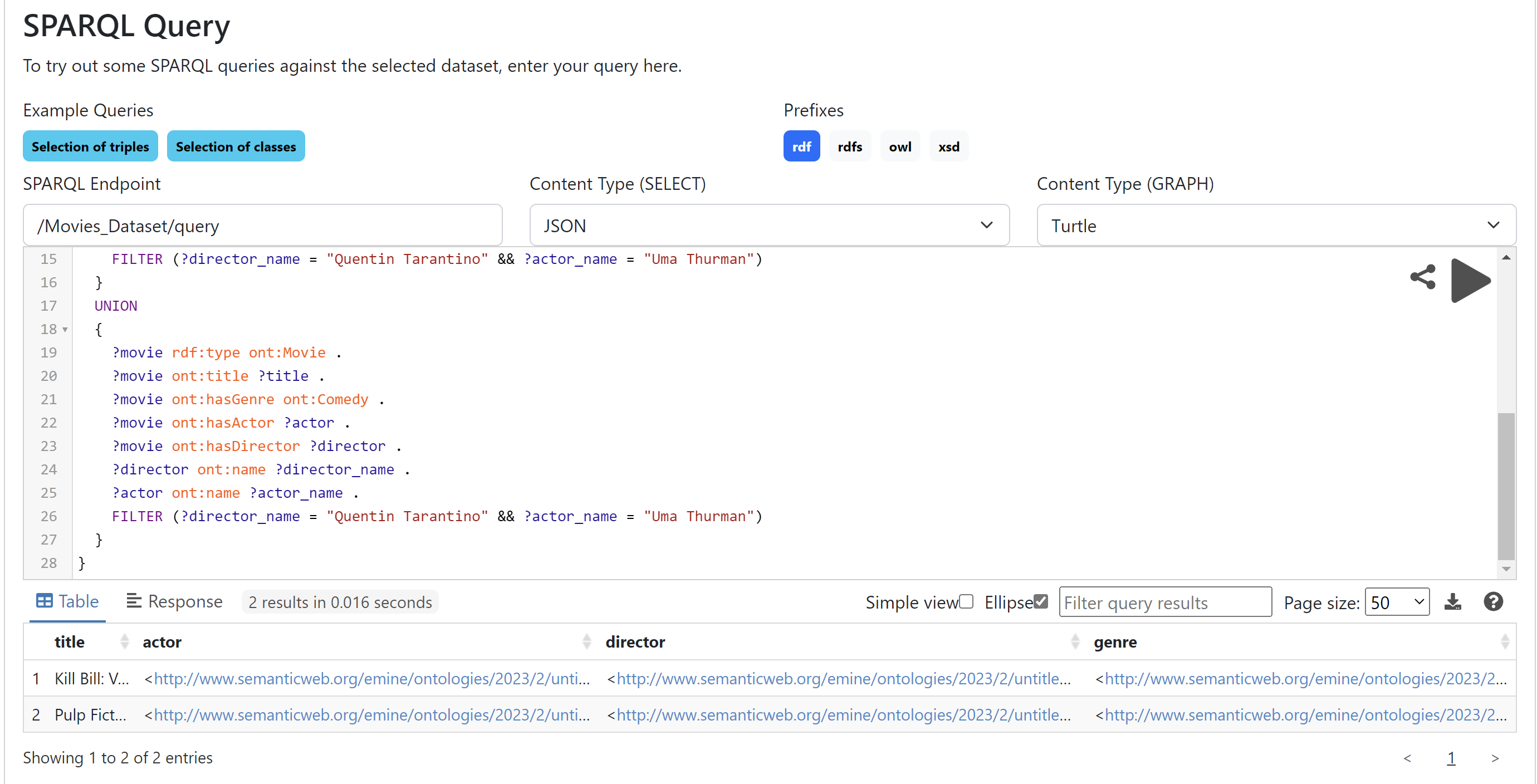
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| Proposal Query 2 |

}

}

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| Proposal Query 2 |

* *Output :*



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| Proposal Query 3 |

* Query that contains a CONSTRUCT query form
* Query :

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

PREFIX ont: <http://www.semanticweb.org/emine/ontologies/2023/2/untitled-ontology-7#>

CONSTRUCT {

?actor ont:isActorOf ?movie .

?movie ont:hasActor ?actor .

}

WHERE {

?movie rdf:type ont:Movie .

?movie ont:title "Sicario" .

?movie ont:hasActor ?actor .

}

* *Output :*

*Une image contenant texte

Description générée automatiquement*

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| Proposal Query 4 |

* Query that contains an ASK query form
* Query :

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

PREFIX ont: <http://www.semanticweb.org/emine/ontologies/2023/2/untitled-ontology-7#>

ASK {

?movie rdf:type ont:Movie .

?movie ont:title "Sicario" .

?movie ont:hasGenre ont:Action .

}

* *Output :*

*Une image contenant texte

Description générée automatiquement*

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| Proposal Query 5 |

* Query that contains a DESCRIBE query form
* Query :

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

PREFIX ont: <http://www.semanticweb.org/emine/ontologies/2023/2/untitled-ontology-7#>

DESCRIBE ?movie

WHERE {

?movie rdf:type ont:Movie .

?movie ont:title "The Avengers" .

}

* *Output :*

*Une image contenant texte

Description générée automatiquement*