

1. First Query :

- **Description :**

Number of cites for the paper with the title : "Knowledge graphs: Introduction, history, and perspectives"

- **Query :**

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

PREFIX ub:

<http://www.semanticweb.org/lenovo/ontologies/2023/11/ReadingReport#>

PREFIX owl: <http://www.w3.org/2002/07/owl#>

SELECT (CONCAT("Knowledge graphs: Introduction, history, and perspectives Cited by ", str(COUNT(?p))) as ?sentence)

WHERE {

 ?p rdf:type ub:Paper.

 ?q rdf:type ub:Paper.

 ?q ub:title "Knowledge graphs: Introduction, history, and perspectives".

 ?q ub:citedBy ?p.

}

- **Results :**

	sentence
1	"Knowledge graphs: Introduction, history, and perspectives Cited by 12"

2. Second Query :

- **Description :**

The main ideas of the paper with the title : "Knowledge graphs: Introduction, history, and perspectives"

- **Query :**

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

PREFIX ub:

<http://www.semanticweb.org/lenovo/ontologies/2023/11/ReadingReport#>

PREFIX owl: <http://www.w3.org/2002/07/owl#>

```

SELECT (CONCAT("Knowledge graphs: Introduction, history, and perspectives : main
ideas : ", ?relation, " ",?idea," ",?relation2," ", ?keyword) as ?sentence)
WHERE {
  ?mi rdf:type ub:Idea.
  ?p rdf:type ub:Paper.
  ?k rdf:type ub:KeyWord.
  ?p ub:title "Knowledge graphs: Introduction, history, and perspectives".
  ?p ?r ?mi.
  ?mi ?r2 ?k.
  BIND(strafter(str(?mi),"#") as ?idea)
  BIND(strafter(str(?k),"#") as ?keyword)
  BIND(strafter(str(?r),"#") as ?relation)
  BIND(strafter(str(?r2),"#") as ?relation2)
  FILTER(?r2 != ub:keywordRelationship && ?r2 != owl:topObjectProperty)
}

```

● Results :

	sentence
1	"Knowledge graphs: Introduction, history, and perspectives : main ideas : aimsToProvide SurveyOnKG Of KnowledgeGraph"
2	"Knowledge graphs: Introduction, history, and perspectives : main ideas : provides CombiningKG_CV For VectorRepresentationLimitation"
3	"Knowledge graphs: Introduction, history, and perspectives : main ideas : provides CombiningKG_CV Of CV"
4	"Knowledge graphs: Introduction, history, and perspectives : main ideas : provides CombiningKG_CV Of KnowledgeGraph"
5	"Knowledge graphs: Introduction, history, and perspectives : main ideas : provides CombiningKG_NLP For VectorRepresentationLimitation"
6	"Knowledge graphs: Introduction, history, and perspectives : main ideas : provides CombiningKG_NLP Of KnowledgeGraph"
7	"Knowledge graphs: Introduction, history, and perspectives : main ideas : provides CombiningKG_NLP Of NLP"
8	"Knowledge graphs: Introduction, history, and perspectives : main ideas : provides GraphKnowledgeBaseClassification Into Ontologies"
9	"Knowledge graphs: Introduction, history, and perspectives : main ideas : provides GraphKnowledgeBaseClassification Into SemanticNetworks"
10	"Knowledge graphs: Introduction, history, and perspectives : main ideas : provides GraphKnowledgeBaseClassification Into Taxonomies"
11	"Knowledge graphs: Introduction, history, and perspectives : main ideas : provides GraphKnowledgeBaseClassification Into TripleStores"
12	"Knowledge graphs: Introduction, history, and perspectives : main ideas : provides GraphKnowledgeBaseClassification Of GraphKnowledgeBase"
13	"Knowledge graphs: Introduction, history, and perspectives : main ideas : provides HumanMachineCurationComparaison Of HumanCuration"
14	"Knowledge graphs: Introduction, history, and perspectives : main ideas : provides HumanMachineCurationComparaison Of MachineCuration"
15	"Knowledge graphs: Introduction, history, and perspectives : main ideas : provides KGApplicationClassification Into organizationOfInformation"

3. Third Query :

● Description :

The list of Authors with their organization and its site , in addition to the papers they wrote .

- Query :

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

PREFIX ub:

<http://www.semanticweb.org/lenovo/ontologies/2023/11/ReadingReport#>

PREFIX owl: <http://www.w3.org/2002/07/owl#>

SELECT (CONCAT(?author, " works for {",?organization, "} which is sited in : {",?site,"}. Wrote {" ,?t,"}") as ?string)

WHERE {

 ?a rdf:type ub:Author.

 ?o rdf:type ub:Organization.

 ?s rdf:type ub:Site.

 ?p rdf:type ub:Paper.

 ?p ub:title ?t.

 ?a ub:wrote ?p.

 ?a ub:worksFor ?o.

 ?o ub:sitedIn ?s.

 BIND(strafter(str(?a),"#") as ?author)

 BIND(strafter(str(?o),"#") as ?organization)

 BIND(strafter(str(?s),"#") as ?site)

}

- Results :

	string
1	"Aditya_Kalyanpur works for {Elemental_Cognition} which is sited in : {USA}. Wrote {Knowledge graphs: Introduction, history, and perspectives}"
2	"Antonis_Klironomos works for {Bosch_Center_for_Artificial_Intelligence} which is sited in : {Germany}. Wrote {ExeKGLib: Knowledge Graphs-Empowered Machine Learning Analytics}"
3	"Evgeny_Kharlamov works for {Bosch_Center_for_Artificial_Intelligence} which is sited in : {Germany}. Wrote {ExeKGLib: Knowledge Graphs-Empowered Machine Learning Analytics}"
4	"Gad-Elrab_Mohamed works for {Bosch_Center_for_Artificial_Intelligence} which is sited in : {Germany}. Wrote {ExeKGLib: Knowledge Graphs-Empowered Machine Learning Analytics}"
5	"Zhipeng_Tan works for {Bosch_Center_for_Artificial_Intelligence} which is sited in : {Germany}. Wrote {ExeKGLib: Knowledge Graphs-Empowered Machine Learning Analytics}"
6	"Zhuoxun_Zheng works for {Bosch_Center_for_Artificial_Intelligence} which is sited in : {Germany}. Wrote {ExeKGLib: Knowledge Graphs-Empowered Machine Learning Analytics}"
7	"Antonis_Klironomos works for {University_of_Mannheim} which is sited in : {Germany}. Wrote {ExeKGLib: Knowledge Graphs-Empowered Machine Learning Analytics}"
8	"Heiko_Paulheim works for {University_of_Mannheim} which is sited in : {Germany}. Wrote {ExeKGLib: Knowledge Graphs-Empowered Machine Learning Analytics}"
9	"Baifan_Zhou works for {University_of_Oslo} which is sited in : {Norway}. Wrote {ExeKGLib: Knowledge Graphs-Empowered Machine Learning Analytics}"
10	"Evgeny_Kharlamov works for {University_of_Oslo} which is sited in : {Norway}. Wrote {ExeKGLib: Knowledge Graphs-Empowered Machine Learning Analytics}"
11	"Chaitanya_Baru works for {San_Diego_Supercomputer_Center} which is sited in : {San_diego}. Wrote {Knowledge graphs: Introduction, history, and perspectives}"
12	"Douglas_B_Lenat works for {Cycorp} which is sited in : {USA}. Wrote {Knowledge graphs: Introduction, history, and perspectives}"
13	"Dennv_Vrandeic works for {Wikimedia_Foundation} which is sited in : {USA}. Wrote {Knowledge graphs: Introduction, history, and perspectives}"