**Knowledge Graphs Lab**

Semantic Data Management

Lab Report

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# B.1: TBOX Definition

# B.2: ABOX Definition

# B.3: Ontology Creation

# B.4: Ontology Querying

1. Find all Authors.

SELECT ?person WHERE {

?person rdf:type KG:Author

}

1. Find all properties whose domain is Author.

SELECT ?property WHERE {

?property rdfs:domain KG:Author

}

1. Find all properties whose domain is either Conference or Journal.

SELECT ?property WHERE {

{?property rdfs:domain KG:Conference}

UNION

{?property rdfs:domain KG:Journal}

}

1. Find all the papers written by a given author that were published in database conferences

SELECT ?paper WHERE {

?author rdf:type KG:Author ;

rdf:id “<insert authorId here>” .

?paper rdf:type KG:Paper ;

KG:authored\_by ?author ;

KG:published\_in ?proceedings .

?proceedings KG:belongs\_to ?conference .

?conference rdf:type KG:Conference ;

KG:related\_to ?field .

?field rdfs:label “databases” .

}

# References

**There are no sources in the current document.**