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| Description of Queries | |
| Query # | Query Description |
| BQ1 | The organization/affiliation of distinct authors from a specific country i.e. Singapore participating in any Semantic Web conference. |
| BQ2 | Find the authors of all the publications having “Ontology Engineering” topic. |
| BQ3 | Find all the organizations/universities affiliated with Semantic Web conferences. |
| BQ4 | Find the conferences sponsored by Elsevier (a publishing company). |
| BQ5 | Find the roles performed by the researcher i.e. Pascal Hitzler in Semantic Web conferences using his Twitter account. |
| BQ6 | Find the list of all the persons associated with Semantic Web conferences. |
| BQ7 | Find the publications, roles performed, affiliated institute and the location of the researcher i.e. Cosmin Stroe in Semantic Web conferences using his Facebook account. |
| BQ8 | Find all the publications with the topic “Semantic Web” and the conferences in which these papers were published. |
| BQ9 | Find the list of all authors who presented the papers on topic “Semantic Web” in any Semantic Web conference. |
| BQ10 | Find the roles of all people associated with any Semantic Web conference. |

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| **SPARQL representation of queries** |
| BQ1: (Old Query not executed due to data unavailability) |
| SELECT ?author ?role ?organization WHERE {  ?author <http://xmlns.com/foaf/0.1/based\_near><http://dbpedia.org/resource/Singapore> .  ?author swc:holdsRole ?role .  ?author swrc:affiliation ?organization .  } |
| BQ2: (Old Query transformed to new query) |
| SELECT ?author ?authorAlt WHERE {  ?pub swc:hasTopic <http://dbpedia.org/resource/Ontology\_engineering>.  ?pub swrc:author ?author .  ?author owl:sameAs ?authorAlt .  } |
| SELECT ?author ?authorAlt WHERE {  ?pub conf:hasTopic <http://dbpedia.org/resource/Ontology\_engineering>.  ?pub conf:hasAuthorList ?authorList.  ?authorList conf:hasFirstItem ?item .  ?item conf:hasContent ?author .  ?person owl:sameAs ?authorAlt  } |
| BQ3: (Old Query transformed to new query) |
| SELECT DISTINCT ?organization ?name WHERE {  ?organization ?p <http://xmlns.com/foaf/0.1/Organization> .  ?organization rdfs:label ?name  } |
| BQ4: (Old Query not executed due to data unavailability) |
| SELECT ?o ?sponsored WHERE{  ?o owl:sameAs <http://dbpedia.org/resource/Elsevier> .  ?o swc:holdsRole ?sponsored .  } |
| BQ5: (Old Query not executed due to data unavailability) |
| SELECT ?p ?roles WHERE{  ?p foaf:made <http://twitter.com/pascalhitzler> .  ?p swc:holdsRole ?roles .  } |
| BQ6:(Old Query transformed to new query) |
| SELECT DISTINCT ?person ?name WHERE {  ?person ?p <http://xmlns.com/foaf/0.1/Person> .  ?person rdfs:label ?name .  } |
| PREFIX person: <https://w3id.org/scholarlydata/person/>  PREFIX conf: <https://w3id.org/scholarlydata/ontology/conference-ontology.owl#>  PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>  SELECT DISTINCT ?person ?name WHERE {  ?person ?p <http://xmlns.com/foaf/0.1/Person> .  ?person rdfs:label ?name .  } |
| BQ7:(Old Query not executed due to data unavailability) |
| SELECT DISTINCT ?pubs ?role ?institute ?loc WHERE{  ?author foaf:homepage <http://www.facebook.com/cosmin.stroe> .  ?author foaf:made ?pubs .  ?author swc:holdsRole ?role .  ?author swrc:affiliation ?institute.  ?author foaf:based\_near ?loc  } |
| BQ8:(Old Query transformed to new query) |
| SELECT DISTINCT ?pubs ?conference WHERE {  ?pubs ?p <http://dbpedia.org/resource/Semantic\_Web> .  ?pubs swc:isPartOf ?conference .  } |
| PREFIX person: <https://w3id.org/scholarlydata/person/>  PREFIX conf: <https://w3id.org/scholarlydata/ontology/conference-ontology.owl#>  PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>  PREFIX foaf: <http://xmlns.com/foaf/0.1/>  SELECT DISTINCT ?pubs ?conference WHERE {  ?pubs ?p <http://dbpedia.org/resource/Semantic\_Web> .  ?pubs <https://w3id.org/scholarlydata/ontology/conference-ontology.owl#isPartOf> ?conference.  } |
| BQ9:(Old Query transformed to new query) |
| SELECT DISTINCT ?pubs ?author WHERE {  ?pubs ?p <http://dbpedia.org/resource/Semantic\_Web> .  ?pubs swrc:author ?author .  } |
| PREFIX person: <https://w3id.org/scholarlydata/person/>  PREFIX conf: <https://w3id.org/scholarlydata/ontology/conference-ontology.owl#>  PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>  PREFIX foaf: <http://xmlns.com/foaf/0.1/>  SELECT DISTINCT ?pubs ?author WHERE {  ?pubs ?p <http://dbpedia.org/resource/Semantic\_Web> .  ?pubs conf:hasAuthorList ?authorList.  ?authorList conf:hasFirstItem ?item .  ?item conf:hasContent ?author .  } |
| BQ10:(Old Query transformed to new query) |
| SELECT DISTINCT ?name ?author WHERE {  ?person ?p <http://xmlns.com/foaf/0.1/Person> .  ?person rdfs:label ?name .  ?person swc:holdsRole ?author .  } |
| PREFIX person: <https://w3id.org/scholarlydata/person/>  PREFIX conf: <https://w3id.org/scholarlydata/ontology/conference-ontology.owl#>  PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>  PREFIX foaf: <http://xmlns.com/foaf/0.1/>  SELECT DISTINCT ?name ?author WHERE {  ?person ?p <http://xmlns.com/foaf/0.1/Person> .  ?person rdfs:label ?name .  ?person <https://w3id.org/scholarlydata/ontology/conference-ontology.owl#holdsRole> ?author .  } |

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| **SPARQL representation of queries** |
| WQ1: (Old Query transformed to new query) |
| SELECT ?paper ?n WHERE {  ?paper swc:isPartOf  <http://data.semanticweb.org/conference/iswc/2008/poster\_demo\_proceedings>.  ?paper swrc:author ?p .  ?p rdfs:label ?n .  } |
| PREFIX person: <https://w3id.org/scholarlydata/person/>  PREFIX conf: <https://w3id.org/scholarlydata/ontology/conference-ontology.owl#>  PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>  PREFIX foaf: <http://xmlns.com/foaf/0.1/>  SELECT ?paper ?n WHERE {  ?paper <https://w3id.org/scholarlydata/ontology/conference-ontology.owl#isPartOf>  <https://w3id.org/scholarlydata/conference/iswc/2008/proceedings>.  ?paper conf:hasAuthorList ?authorList.  ?authorList conf:hasFirstItem ?item .  ?item conf:hasContent ?author .  ?author rdfs:label ?n.  } |
| WQ2: (Old Query transformed to new query) |
| SELECT ?paper ?p WHERE {  ?proceedings swc:relatedToEvent <http://data.semanticweb.org/conference/eswc/2010> .  ?paper swc:isPartOf ?proceedings .  ?paper swrc:author ?p .  } |
| PREFIX person: <https://w3id.org/scholarlydata/person/>  PREFIX conf: <https://w3id.org/scholarlydata/ontology/conference-ontology.owl#>  PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>  PREFIX foaf: <http://xmlns.com/foaf/0.1/>  SELECT ?paper ?p WHERE {  ?proceedings <https://w3id.org/scholarlydata/ontology/conference-ontology.owl#isProceedingsOf> <https://w3id.org/scholarlydata/conference/eswc/2010> .  ?paper <https://w3id.org/scholarlydata/ontology/conference-ontology.owl#isPartOf> ?proceedings.  ?paper conf:hasAuthorList ?authorList.  ?authorList conf:hasFirstItem ?item .  ?item conf:hasContent ?p .  } |
| WQ3: (Old Query transformed to new query) |
| SELECT ?p ?n WHERE {  ?paper swc:isPartOf  <http://data.semanticweb.org/conference/iswc/2008/poster\_demo\_proceedings>.  ?paper swrc:author ?p .  ?p owl:sameAs ?x .  ?p rdfs:label ?n .  } |
| PREFIX person: <https://w3id.org/scholarlydata/person/>  PREFIX conf: <https://w3id.org/scholarlydata/ontology/conference-ontology.owl#>  PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>  PREFIX foaf: <http://xmlns.com/foaf/0.1/>  SELECT ?author ?n WHERE {  ?paper <https://w3id.org/scholarlydata/ontology/conference-ontology.owl#isPartOf>  <https://w3id.org/scholarlydata/conference/iswc/2008/proceedings>.  ?paper conf:hasAuthorList ?authorList.  ?authorList conf:hasFirstItem ?item .  ?item conf:hasContent ?author .  ?author owl:sameAs ?x .  ?author rdfs:label ?n.  } |
| WQ4: (Old Query not executed due to data unavailability) |
| SELECT ?paper ?proceedings WHERE{  ?role swc:isRoleAt <http://data.semanticweb.org/conference/eswc/2010> .  ?role swc:heldBy ?p .  ?paper swrc:author ?p .  ?paper swc:isPartOf ?proceedings .  ?proceedings swc:relatedToEvent  <http://data.semanticweb.org/conference/eswc/2010>.  } |
| WQ14:(Old Query transformed to new query) |
| SELECT ?author ?authorAlt WHERE{  ?pub swc:isPartOf  <http://data.semanticweb.org/conference/eswc/2009/proceedings>.  ?pub swc:hasTopic ?topic .  ?topic rdfs:label "Ontology engineering"@en .  ?pub swrc:author ?author .  ?author owl:sameAs ?authorAlt .  } |
| PREFIX person: <https://w3id.org/scholarlydata/person/>  PREFIX conf: <https://w3id.org/scholarlydata/ontology/conference-ontology.owl#>  PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>  PREFIX foaf: <http://xmlns.com/foaf/0.1/>  SELECT ?author ?authorAlt WHERE{  ?pub <https://w3id.org/scholarlydata/ontology/conference-ontology.owl#isPartOf> <https://w3id.org/scholarlydata/conference/eswc/2009/proceedings>.  ?pub <https://w3id.org/scholarlydata/ontology/conference-ontology.owl#hasTopic> ?topic .  ?topic rdfs:label "Ontology engineering"@en.  ?paper conf:hasAuthorList ?authorList.  ?authorList conf:hasFirstItem ?item .  ?item conf:hasContent ?author .  ?author owl:sameAs ?authorAlt .  } |