SPARQL Queries

This document contains SPARQL queries used during the example walkthrough.

Query used to Search

Listing 1 presents the query used to retrieve people from the VRTI graph with the full name "Samuel Beckett.

```
PREFIX crm: <http://erlangen-crm.org/current/>
PREFIX vrti: <https://ont.virtualtreasury.ie/ontology#>
PREFIX foaf: <http://xmlns.com/foaf/0.1/>
PREFIX owl: <http://www.w3.org/2002/07/owl#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
SELECT DISTINCT *
WHERE {

   ?person  a crm:E21_Person;
                crm:P2_has_type   ?Gender .
   OPTIONAL   { ?person  crm:P1_is_identified_by ?First_Name .
                ?First_Name crm:P2_has_type vrti:Forename ;
                            rdfs:label ?First_Name_Label .
         }
   OPTIONAL   { ?person    crm:P1_is_identified_by ?Full_Name .
                ?Full_Name   crm:P2_has_type vrti:Name ;
                            rdfs:label ?Full_Name_Label .
         }

   OPTIONAL    { ?person    crm:P1_is_identified_by ?Last_Name .
                ?Last_Name  crm:P2_has_type vrti:Surname ;
                            rdfs:label ?Surname_Label .
         }
   OPTIONAL    { ?person    crm:P1_is_identified_by ?Variant_Name .
        ?Variant_Name  crm:P2_has_type vrti:NameVariant ;
                            rdfs:label ?Variant_Name_Label .
   }
   OPTIONAL    { ?person    crm:P1_is_identified_by ?Alias .
        ?Alias  crm:P2_has_type vrti:SoubriquetAlias ;
                            rdfs:label ?Alias_Label .
   }

   OPTIONAL    { ?person    crm:P1_is_identified_by ?Patronymic_Matronymic .
        ?Patronymic_Matronymic  crm:P2_has_type vrti:PatronymicsMatronymics ;
                            rdfs:label ?Patronymic_Matronymic_Label .
   }
   OPTIONAL   { ?person   foaf:depiction ?Image . }
   OPTIONAL   { ?person   owl:sameAs ?Wikidata . }
   OPTIONAL   { ?person  vrti:DIB_area_of_interest ?Interest .
                 ?Interest rdfs:label ?Interest_Label .}
   OPTIONAL   { ?person  vrti:DIB_ID  ?DIB_ID . }
   OPTIONAL   { ?person   crm:P71i_is_listed_in ?DIB_Page . }
   OPTIONAL   { ?Source   crm:P71_lists ?person . }

   OPTIONAL {  ?person rdfs:seeAlso ?Related_Information_Permanent_Link .   }
   OPTIONAL {  ?person crm:P130_shows_features_of ?Related_Information_Non_Permanent_Link .   }
   OPTIONAL {  ?person  vrti:associatedWith ?Associated_With .   }
   OPTIONAL {  ?person  vrti:duplicatePerson ?Identical_To .   }

   ?death a crm:E69_Death;
        crm:P93_took_out_of_existence  ?person .
   OPTIONAL { ?death       crm:P4_has_time-span  ?Death_Date .
                ?Death_Date  crm:P81a_end_of_the_begin ?Death_Date_Lower .
                ?Death_Date  crm:P82b_end_of_the_end ?Death_Date_Upper .  }
   OPTIONAL {   ?death crm:P7_took_place_at  ?Death_Place . }

   ?birth a crm:E67_Birth;
        crm:P98_brought_into_life  ?person  .
   OPTIONAL { ?birth       crm:P4_has_time-span  ?Birth_Date .
                ?Birth_Date  crm:P81a_end_of_the_begin ?Birth_Date_Lower .
                ?Birth_Date  crm:P82b_end_of_the_end ?Birth_Date_Upper . }
```

```
   OPTIONAL {  ?birth crm:P7_took_place_at  ?Birth_Place . }
   OPTIONAL { ?birth crm:P96_by_mother  ?Mother .
                #   ?Mother_Label  rdfs:label|crm:P1_is_identified_by  ?Mother.
                }
   OPTIONAL { ?birth crm:P97_from_father  ?Father .
         # ?Father  rdfs:label|crm:P1_is_identified_by  ?Father_Label .
           }

   OPTIONAL { ?Floruit_Resource  crm:P2_has_type vrti:Floruit ;
                        crm:P4_has_time-span ?Floruit ;
                        crm:P12_occurred_in_the_presence_of  ?person .
                ?Floruit  crm:P81a_end_of_the_begin ?Floruit_Lower ;
                        crm:P82b_end_of_the_end ?Floruit_Upper .
         }

  OPTIONAL {  ?Occupation a crm:E74_Group ;
                crm:P2_has_type  vrti:Occupation  ;
                crm:P107_has_current_or_former_member ?person ;
                rdfs:label ?Occupation_Label .  }


  OPTIONAL {  ?Rank a crm:E74_Group ;
                crm:P2_has_type  vrti:Rank  ;
                crm:P107_has_current_or_former_member ?person ;
                rdfs:label ?Rank_Label .  }

  OPTIONAL {  ?Office a crm:E74_Group ;
                        crm:P2_has_type  vrti:Office  ;
                        crm:P107_has_current_or_former_member ?person .  }

 OPTIONAL {  ?Organisation a crm:E74_Group ;
                        crm:P2_has_type  vrti:Organisation  ;
                        crm:P107_has_current_or_former_member ?person .  }
 OPTIONAL {  ?person  crm:note ?Comment .  }
  # filter query placed below
  FILTER ( CONTAINS(LCASE(STR(?Full_Name_Label)), LCASE('samuel'))  && CONTAINS(LCASE(STR(?Full_Name_Label)),
LCASE('beckett'))   )

}
ORDER BY ?Full_Name_Label
```

Listing 1: Query used to retrieve people with full name "Samuel Beckett"

Query used to Edit

Listing 2 presents the query generated by the editor to change the occupation of Samuel Beckett from "writer" to "author".

```
PREFIX crm: <http://erlangen-crm.org/current/>

 INSERT DATA {

<https://kb.virtualtreasury.ie/occupation/IE/author> crm:P107_has_current_or_former_member <https://kb.virtualtreasury.ie/person/Beckett_Samuel-Barclay_c20_dib_a0533> .

 } ;

 DELETE DATA {

<https://kb.virtualtreasury.ie/occupation/IE/writer> crm:P107_has_current_or_former_member <https://kb.virtualtreasury.ie/person/Beckett_Samuel-Barclay_c20_dib_a0533> .

 } ;
```

Listing 2: Update query generated by editor