GRAPHDB QUERY

- **HEALTHCARE FACILITIES QUERY**

PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX etype: <http://knowdive.disi.unitn.it/etype#>
PREFIX onto: <http://www.ontotext.com/>
PREFIX :
<http://www.semanticweb.org/andreamoro/ontologies/2022/10/untitled-ontology-24#>
select ?IDFacility ?Patient_name ?Facility_type ?Town ?CC ?CCtype ?DC ?DCtype
where {
    #query pattern to define variables to the classes, object, attributes in the schema

    #Patient
    ?IDPatient rdf:type etype:Patient_GID-55936 .
    ?IDPatient etype:has_Patient_name_GID-300048_Type-55936 ?Patient_name .

    #Facility
    ?IDFacility rdf:type etype:Organization_Healthcare_Facilities_GID-20518 .
    ?IDFacility etype:has_facilities_type_GID-300053_Type-20518 ?Facility_type .
    ?IDFacility etype:has_Organization_name_GID-300061_Type-300005 ?Facility_name .
    ?IDFacility etype:has_assistance_type_ita_GID-300041_Type-20518 ?Facility_assistance
.
    ?IDFacility etype:has_town_GID-300025_Type-46452 ?Town .

    #Patient goes to Facility
    ?IDPatient etype:has_goes_to_GID-300019_Type-55936 ?IDFacility .

    #Apply filter to select the type of facility and where is locate it
    FILTER regex(?Facility_type, "DIURNAL") . #Select type of facility
    #FILTER regex(?Facility_assistance, "ATTIVITA` CLINICA") . #Select the type of assiance
the facility can provide
    FILTER regex(?Town, "TRENTO") . #Select the location of the facility (town)

    {#Community Center
        select ?IDFacility ?CC ?CCtype
        where{
            ?CC rdf:type etype:Community_Center_GID-300011 .
            ?IDFacility etype:has_provide_service_to_GID-300017_Type-20518 ?CC .
            OPTIONAL{
                        #?CC etype:has_CommunityCenter_type_GID-300064_Type-300011
?CCtype .
                #FILTER regex(?CCtype, "GENERAL") .
            } .

```
        }
    }

    {#Diurnal Center
        select ?IDFacility ?DC ?DCtype
        where{
            ?DC rdf:type etype:Diurnal_Center_GID-300015  .
            ?IDFacility etype:has_provide_service_to_GID-300017_Type-20518 ?DC .
                    OPTIONAL{
                #?DC etype:has_DiurnalCenter_type_GID-300063_Type-300015 ?DCtype .
                #FILTER regex(?DCtype, "SENIOR") .
            } .
        }
    }

}
```

- **PARAPHARMACY QUERY**

```
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX etype: <http://knowdive.disi.unitn.it/etype#>
PREFIX onto: <http://www.ontotext.com/>
PREFIX :
<http://www.semanticweb.org/andreamoro/ontologies/2022/10/untitled-ontology-24#>
select ?IDPara ?IDPatient ?Para_name ?PatientName ?Town ?Address
where {
    #query pattern to define variables to the classes, object, attributes in the schema

    #Patient
    ?IDPatient rdf:type etype:Patient_GID-55936 .
    ?IDPatient etype:has_Patient_name_GID-300048_Type-55936 ?PatientName .

    #Parapharmacy
    ?IDPara rdf:type etype:Organization_Parapharmacy_GID-300005  .
    ?IDPara etype:has_Organization_name_GID-300061_Type-300005 ?Para_name .
    ?IDPara etype:has_Organization_address_GID-300036_Type-300004 ?Address .
    ?IDPara etype:has_town_GID-300025_Type-46452 ?Town .

    #Patient goes to Parapharmacy
    ?IDPatient etype:has_goes_to_GID-300019_Type-55936 ?IDPara .

    FILTER regex(?Town, "ARCO") . #Select the location of the facility (town)
}
```

- **BLOOD TEST CENTER QUERY**

```
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
```

```
PREFIX etype: <http://knowdive.disi.unitn.it/etype#>
PREFIX onto: <http://www.ontotext.com/>
PREFIX :
<http://www.semanticweb.org/andreamoro/ontologies/2022/10/untitled-ontology-24#>
select ?IDbtc ?IDPatient ?Patient_name ?Town ?Address ?Note
where {
    #query pattern to define variables to the classes, object, attributes in the schema

    #Patient
    ?IDPatient rdf:type etype:Patient_GID-55936 .
    ?IDPatient etype:has_Patient_name_GID-300048_Type-55936 ?Patient_name .

    #Facility
    ?IDbtc rdf:type etype:Organization_Blood_Test_Center_GID-300004  .
    ?IDbtc etype:has_Organization_address_GID-300036_Type-300004 ?Address.
    ?IDbtc etype:has_note_GID-34863_Type-300004 ?Note .
    ?IDbtc etype:has_town_GID-300025_Type-46452 ?Town .

    #Patient goes to Facility
    ?IDPatient etype:has_goes_to_GID-300019_Type-55936 ?IDbtc .

    FILTER regex(?Town, "LAVIS") . #Select the location of the facility (town)
}
```