SHRINE 3.1.0 Chapter 10 - Setting Up the ACT Ontology for SHRINE

This chapter briefly describes the settings necessary to set up the ACT ontology in the i2b2 ONT cell, and the Lucene indexes and adapter mappings file for SHRINE. If you are setting up or joining a different network, you will need to use the correct ontology, Lucene indexes, and mappings file for that network.

The University of Pittsburgh maintains the ACT ontology. The most recent version is 2.0.1. You will also need the COVID-19 ontology enhancement. Please refer to the ontology section in the official ACT Network Wiki at https://dbmi-pitt.github.io/ACT-Network/ontology.html for how to install the ACT ontology and the COVID-19 enhancement. The entirety of the ACT ontology must be installed properly in the i2b2 host. The SHRINE host must have the correct adapter mappings file and Lucene index files.

When you have finished the ACT ontology installation, you should check the following places in the database to make sure that they are pointing SHRINE to the ACT ontology.

- For i2b2.public.ont_db_lookup table, there should be exactly one (1) row that has the following values (only the relevant values are highlighted here):

  c_domain_id = local site's i2b2 domain name
  c_project_path = "ACT/"
  c_db_fullschema = "i2b2metadata"
  c_db_datasource = local site's datasource
  c_db_servertype = local site's database engine type
- For i2b2.public.crc_db_lookup table, There should be exactly one (1) row that has the following values (only the relevant values are highlighted here):

  c_domain_id = local site's i2b2 domain name
  c_project_path = "/ACT/"
- For i2b2.i2b2metadata.table_access table, if you run "select c_table_cd,c_table_name,c_name from table_access;", you should see the following entries:

i2b2.i2b2metadata.table_access

c_table_cd	c_table_name	c_name
ACT_LAB_LOINC_2018	ACT_LOINC_LAB_2018AA	ACT Laboratory Tests (Provisional)
ACT_MED_VA_2018	ACT_MED_VA_V2_092818	ACT Medications VA Classes
ACT_PX_CPT_2018	ACT_CPT_PX_2018AA	ACT Procedures CPT-4
ACT_PX_HCPCS_2018	ACT_HCPCS_PX_2018AA	ACT Procedures HCPCS
ACT_DEMO	NCATS_DEMOGRAPHICS	ACT Demographics
ACT_DX_10_9	NCATS_ICD10_ICD9_DX_V1	ACT Diagnoses ICD10-ICD9
ACT_LAB	NCATS_LABS	ACT Laboratory Tests
ACT_VISIT	NCATS_VISIT_DETAILS	ACT Visit Details
ACT_MED_ALPHA_2018	ACT_MED_ALPHA_V2_121318	ACT Medications Alphabetical
ACT_PX_ICD9_2018	ACT_ICD9CM_PX_2018AA	ACT Procedures ICD-9-Proc
ACT_PX_ICD10_2018	ACT_ICD10PCS_PX_2018AA	ACT Procedures ICD-10-PCS
ACT_DX_ICD9_2018	ACT_ICD9CM_DX_2018AA	ACT Diagnoses ICD-9-CM
ACT_DX_ICD10_2018	ACT_ICD10CM_DX_2018AA	ACT Diagnoses ICD-10
ACT_COVID_V1	ACT_COVID	ACT COVID-19