
Algorithm 4 Create imported OWL SNOMED classes from database

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procedure CREATE_IMPORTED_OWL_SNOMED_CLASSES
2:   ontologyCreation(table, root);
   createOWLOntologyManager();
4:   ontologyIRI = createIRI("http://www.w3.org/2003/01/SNOMEDCT.owl#");
   manager.createOntology(ontologyIRI);
6:   manager.getOWLDataFactory();
   set database connection;
8:   result = select conceptid1, conceptid2, name from table;
   resultset = executeQuery(query);
10:  while resultset != null do
   child = getString(concept1);
12:   father = getString(concept2);
   name = getName(name);
14:   writeHierarchyInOntology(child, father, name);
   end while
16:  close database connection;
   function WRITEHIERARCHYINONTOLOGY(CHILD, FATHER, NAME)
18:     getOWLClass(IRI.create(child);
     getOWLClass(IRI.create(father);
20:     addAxiom(getOWLSubClassOfAxiom(child, parent))
     getOWLAnnotation(getRDFSCComment(), getOWLLiteral(name))
22:     getOWLAnnotationAssertionAxiom();
   end function
24:   saveOntology();
end procedure
```
