(8) rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns# (151) rdfs: http://www.w3.org/2000/01/rdf-schema# (155) owl: http://www.w3.org/2002/07/owl# (2) foaf: http://xmlns.com/foaf/0.1/ (2) dcterms: http://purl.org/dc/terms/ cogs: http://vocab.deri.ie/cogs#

cogs:Extraction

cogs:Parsing

cogs:Prefiltering

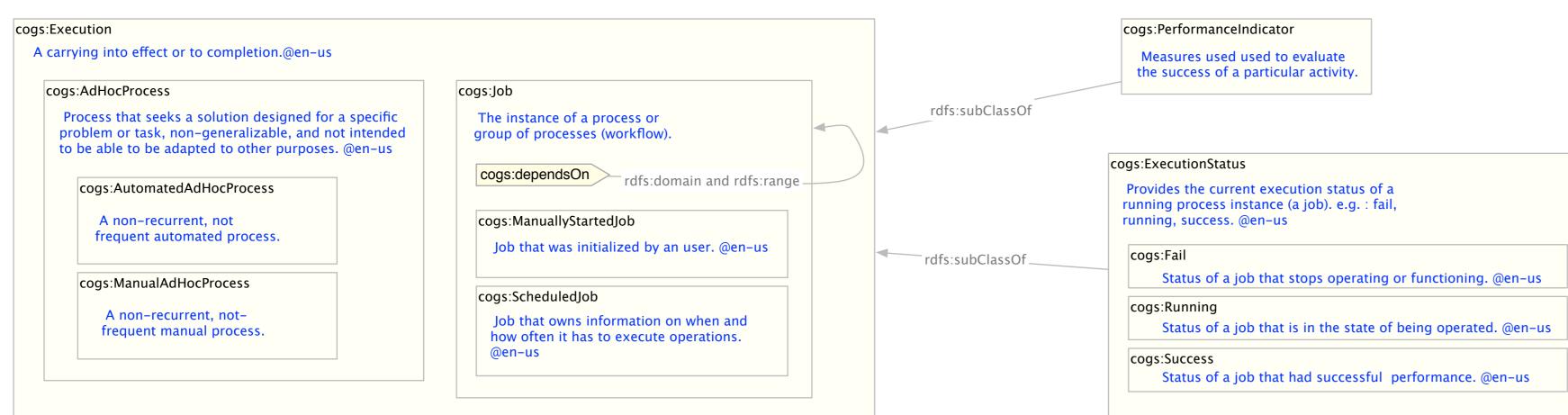
input tokens. @en-us

cogs:Operation

Functional operations that can be done by a computer.

cogs:DeleteRow

cogs:JoinRows



```
cogs:Transformation
The first part of an ETL process which involves
                                                                   The process of manipulating data. @en-us
                                                                                                                                                                                                                      cogs:Validation
extracting the data from source systems. @en-us
                                                                                                                                                                                                                        The act of validating; finding or
                                                                                                                                                                                                                        testing the truth of something. @en-us
   Process of analyzing text or data, checking for
                                                                                                                                                                                                                          cogs:AutomatedValidation
   correct syntax and building a implicit in the
                                                                     cogs:Lookup
                                                                                                                                                                                                                           Validation performed by a computer. @en-us
                                                                        A process used to look up data in a relational table, view or synonym. @en-us
    Preliminary filtering during the extraction phase.
                                                                         cogs:FileLookup
                                                                                                  The process of looking up for information in a file. @en-us
                                                                                                                                                                                                                          cogs:HumanValidation
                                                                         cogs:RESTLookup
                                                                                                  Lookup on a REST service. @en-us
                                                                                                                                                                                                                            Validation performed by a person:
                                                                         cogs:TableLookup
                                                                                                  Process of using a known value to search for data on a table. @en-us
                                                                                                                                                                                                                            an user or admin. @en-us
                                                                         cogs:WebServiceLookup | Allows the retrieving of data from a web service and uses this during the form filling process. @en-us
```

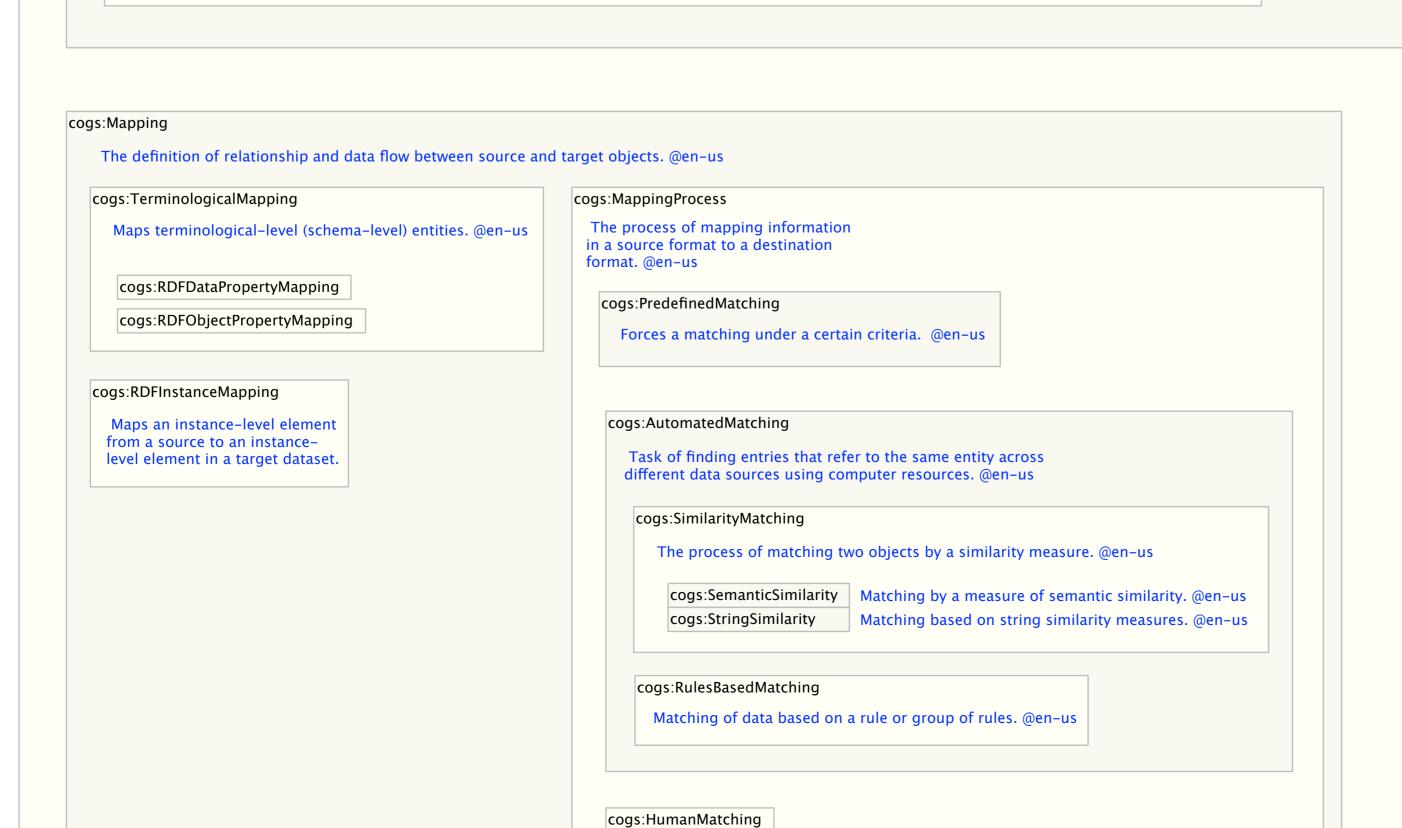
cogs:GraphOperation cogs:ApplyScript Execution of a scriptt. @en-us cogs:Copy A piece of data that was duplicated. @en-us Instructions performed on graphs. @en-us cogs:KeyGeneration Process of generating keys for cryptography. @en-us cogs:DeleteTriple | Deletes on or more triples into the store.@en-us cogs:Move To change in position from one point to another. @en-us cogs:InsertTriple | Includes one or more triple into the store. @en-us cogs:Order Application of a specific order to a set of elemetris. @en-us cogs:Paste To copy an object from a buffer or clipboard to a file. @en-us cogs:RowOperation Instructions executed on rows of a table or file. @en-us cogs:InsertRow Inclusion of a row on a table. @en-us cogs:AggregateRows Functions which return a single result row based on groups of rows. @en-us cogs:Deduplication Data compression technique for eliminating redundant data. @en-us

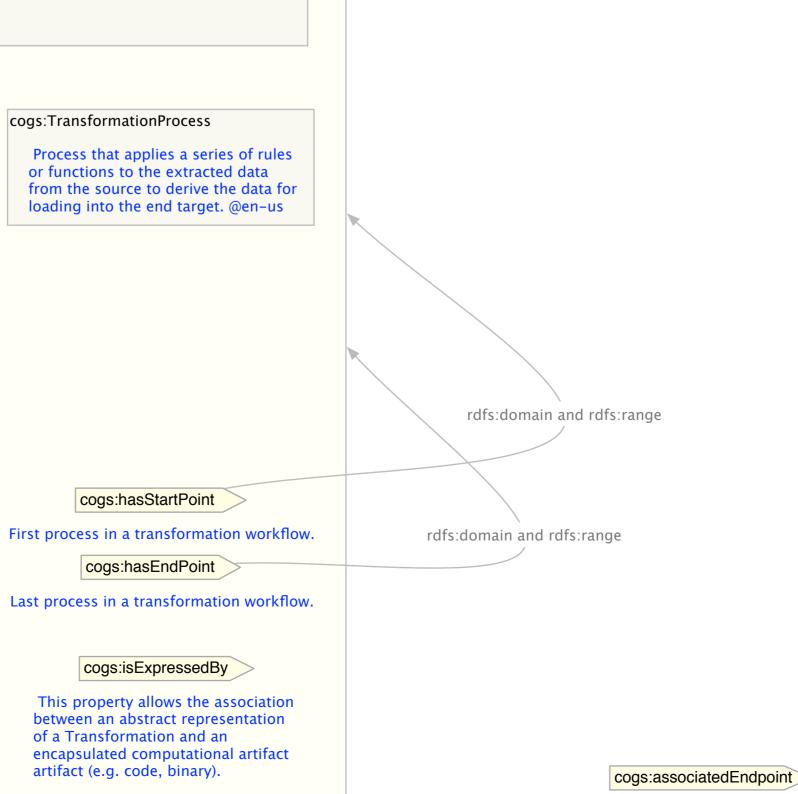
cogs:KeyRestructuring | Transformation of keys with built-in meanings into generic keys. @en-us cogs:MergeRow Row Operation that allows the comparison of two streams of rows. It is often used in situations where the source system of a data warehouse does not contain a date of last update. @en-us cogs:SortRow Row Operation that sorts rows based on a specified fields and on whether they should be sorted in ascending or descending order. @en-us cogs:ColumnOperation Instructions applied on one or more columns. @en-us cogs:DeleteColumn Deletes one or more columns according to a certain criteria to a table. @en-us Copy the contents of the topmost cells of a selected range into the cells below.@en-us cogs:InsertColumn Inserts one or more columns according to a certain criteria to a table. @en-us | cogs:RenameColumn | Changes the name of a certain column. @en-us cogs:SplitColumn Divides a column in one or more other columns. @en-us cogs:Filter An operation that can be used to retain rows in a mapping that do not meet specific conditions. @en-us cogs:RegexFilter | Filter written in a formal language that can be interpreted by a regular expression processor. @en-us cogs:StringFilter | Provides means for matching strings of text, such as particular characters, words, or patterns of characters. @en-us cogs:ValueOperation Evaluate a selected function for a particular value of x. @en-us Sets or re-sets the value stored in the storage location(s) denoted by a variable name. @en-us cogs:Assignment

Exclusion of a single or group of rows by a certain criteria on a table. @en-us

Row Operation that allows combinations (Cartesian product) of all rows in the input streams.@en-us

cogs:CharacterSetConvers | Converts strings between different character sets. @en-us cogs:FieldDecoding Performs decoding operations when you specify field-encoding function. @en-us cogs:FormatRevision Reviews the file format. @en-us cogs:UnitConversion Units of measurement. @en-us cogs:NumericOperation Manipulate and manage numeric data. @en-us cogs:ApplyFormula New data are computed based on the user-defined formula. @en-us cogs:Ceil Returns the smallest integer greater than or equal to n. @en-us cogs:NumericCast Converts an expression of one numeric data type to another. @en-us cogs:Round Round a numeric value to a close number by following a specific rounding criteria. @en-us cogs:StringOperation Operations for manipulating strings. @en-us cogs:Append String operation for concatenating lists or arrays. @en-us cogs:Lowercase String operation for converting a string to lowercase.@en-us cogs:Replace String operation for updating the content of a string. @en-us String operation that returns a zero-based, one-dimensional array containing a specified number of substrings. @en-us cogs:Split cogs:Trim String operation for removing leading and trailing whitespace from a string. @en-us cogs:Uppercase String operation for converting a string to uppercase. @en-us cogs:ValueCalculation | A value that results from some sort of calculation performed on a specified input value.





cogs:associatedGraph

cogs:RDFGraph

A set of RDF triples. @en-us

cogs:TransformationProcess

cogs:hasStartPoint

cogs:hasEndPoint

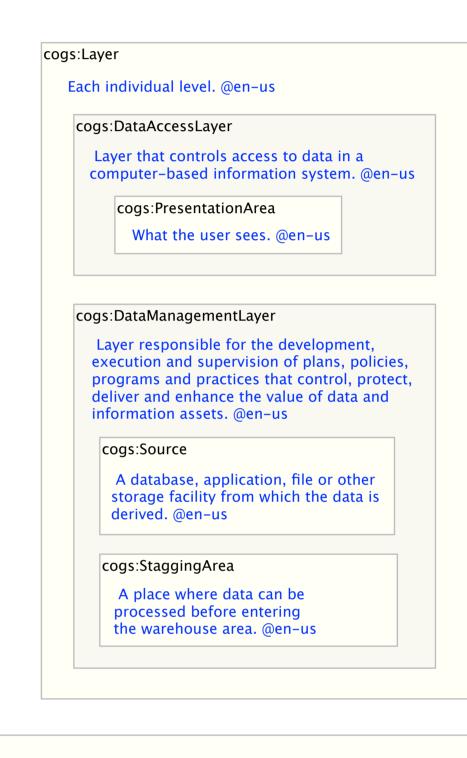
artifact (e.g. code, binary).

cogs:Publication cogs:Loading Stage that is responsible for loading The output of an ETL process which is data into the end target. @en-us made available to a certain public. @en-us cogs:ConstructiveMerge If the primary key of an incoming record matches with the key of an existing Record, leaves the existing Record, adds the incoming record and marks the added record as superseding the old record. @en-us cogs:DestructiveMerge Applies the incoming data to the target data and if the primary key of an incoming record marches with the key of an existing record updates the matching target record. If the incoming record is a new record without a rdfs:subClassOf match with any existing record, adds the incoming record to the target table. @en-us rdfs:subClassOf cogs:FullRefresh rdfc.ciihClaccOf Truncates all the tables and data gets loaded again. @en-us rdfs:subClassOf cogs:LoadingType rdfs:subClassOf rdfs:comment Techniques required for the movement of rdfs:subClassOf the data warehouse environment. @en-us cogs:IncrementalLoad Applies ongoing changes to one or more tables based on a predefined schedule. @en-us rdfs:subClassOf cogs:InitialLoad Populates the tables in the data warehouse schema and verifies if the data is ready for use. @en-us cogs:LoadingProcess rdfs:comment Information from data sources are loaded and stored in the target data model.

cogs:precededBy

Defines the ordering among two processes

cogs:isPartOf



```
cogs:Object
  Any entity that can be manipulated by the
 commands of a programming language, such
 as a value, variable, function, or data structure.
   cogs:Class
                              A construct that is used as a blueprint to create instances of the class. @en-us
    cogs:Cube
                              A multidimensional database that holds data. @en-us
    cogs:DSN
                              Data Source Name (DSN) is a data structure that contains the information about a specific database. @en-us
    cogs:DataMart
                              Data mart is a process-oriented subset of the overall organization's data based on a foundation of atomic data, and that depends only on the physics of the data-measurement events, not on the anticipated user's questions.
    cogs:DataStream
                              A sequence of digitally encoded coherent signals (packets of data) used to transmit or receive information that is in the process of being transmitted. @en-us
    cogs:Database
                              A database is a collection of information organized into interrelated tables of data and specifications of data objects. @en-us
    cogs:Dataset
                              A collection of data, usually presented in tabular form where each column represents a particular variable and each row corresponds to a given member of the data set in question. @en-us
    cogs:Device
                              A machine designed for a purpose. E.g.: Unit of hardware. @en-us
    cogs:Event
                              An action that is usually initiated outside the scope of a program and that is handled by a piece of code inside the program. @en-us
    cogs:Exception
                              An event, which occurs during the execution of a program, which disrupts the normal flow of the program's instructions. @en-us
    cogs:File
                              A block of arbitrary information, or resource for storing information, which is available to a computer program. @en-us
    cogs:Formula
                              A rule or principle. @en-us
    cogs:Input
                              Any data entered into a computer.@en-us
    cogs:LastError
                              Final error on a execution workflow. @en-us
    cogs:Log
                              A record of computer activity. @en-us
    cogs:MappingFile
                              The specification of a mapping between source and target fields (e.g. RDB2RDF).
    cogs:Metadata
                              Data that describe data and other structures, such as objects, business rules and processes. @en-us
    cogs:Method
                              A subroutine that is exclusively associated with a object. @en-us
                              | Value that enables a program to indirectly access a particular object. @en-u:
    cogs:ObjectRepresentation | Internal representation of an object suitable for matching its features. @en-us
    cogs:Operator
                              A symbol or function representing a mathematical operation. @en-us
    cogs:Output
                              Information, resulting from computer processing, that is delivered to a user. @en-us
                              A sequence of instructions written to perform a specified task for a computer. @en-us
    cogs:Program
    cogs:RejectedData
                              Data that contain database violations and are forbidden to get inserted into a table. @en-us
    cogs:Rule
                              A principle or formula. @en-us
    cogs:Schema
                               The structure of a database system described in a formal language supported by the database management system. Describes tables, for example. @en-us
    cogs:Script
                              A program or sequence of instructions that is interpreted or carried out by another program rather than by the computer processor. @en-us
    cogs:Sensor
                              Device that measures or detects a real-world condition and converts the condition into an analog or digital representation. @en-us
    cogs:Server
                              Software program, or the computer on which that program runs, that provides a specific kind of service to a client software. @en-us
    cogs:Service
                              Action done by a device or user with the function of giving good by providing usefulness. @en-us
      cogs:Column
                                 Database tables are composed of individual columns corresponding to the attributes of the object. @en-us
      cogs:Row
                                 A serie of objects placed in line. @en-us
      cogs:Table
        A predefined format of rows and columns
        that define a database entity. @en-us
         cogs:DimensionTable
            One of the set of companion tables to a fact table. @en-us
         cogs:FactTable
            A table that consists of the measurements, metrics or
           facts of a process. @en-us
     cogs:StoredProcedure
                                 A transformation used to create unique primary key values or cycle through a sequential range of numbers to replace missing keys. @en-us
      cogs:Trigger
                                 A procedural code that is automatically executed in response to certain events on a particular table or view in a database. @en-us
      cogs:View
                                 Consists of a stored query accessible as a virtual table composed of the result set of a query. @en-us
      cogs:StagingAreaArtifact
                                 The final product; what the end users see. @en-us
      cogs:QueryObject
         A structured object which is used to request information or
        perform an action in a database. @en-us
        cogs:UpdateQueryObject | Query that changes the data of one or more records in a table. @en-us
        cogs:DeleteQueryObject  Query that does a delete operation on a row, column, table for example. @en-us
        — cogs:Endpoint
    rdfs:range —
                                                  Database access point as a web service (SPARQL Endpoint) . @en-us
                    cogs:RDFNamedGraph
                                                 Multiple RDF graphs in a single document/repository and naming them with URIs. @en-us
                       cogs:Triple
                                                  A basic RDF statement resembling the English-Language construct of (subject, predicate, object). @en-us
```