

CDO Competency Questions

The following document includes the ontology competency questions and SPARQL query answers for the Change Detection Ontology (CDO).

Competency question	Answer (Classes and Properties)	Result Value	Correct
Who executed the process?	<pre>SELECT DISTINCT ?actor WHERE { ?subject1 a owl:NamedIndividual; rei-denontic:actor ?actor. ?subject2 a owl:NamedIndividual; lode:involvedAgent ?actor. }</pre>	ex:userAgent	Yes
What is a change?	<pre>SELECT DISTINCT ?event WHERE { ?eventLog a cdo:EventLog; cdo:hasEvent ?event . }</pre>	ex:insertEvent1 ex:insertEvent2	Yes
What is a grouping of changes?	<pre>SELECT ?eventLog WHERE { ?eventLog a owl:NamedIndividual; a cdo:EventLog . }</pre>	ex:eventLog	Yes
When did the change occur?	<pre>SELECT DISTINCT ?time WHERE { ?eventLog a cdo:EventLog; cdo:hasEvent ?event . ?event lode:atTime ?time. }</pre>	ex:detectionTime	Yes
Where did the change occur?	<pre>SELECT DISTINCT ?sourceData WHERE { ?eventLog a cdo:EventLog; cdo:hasEvent ?event . ?event lode:atPlace ?sourceData }</pre>	ex:sourceData	Yes
What type of change was it?	<pre>SELECT DISTINCT ?eventType WHERE { ?eventLog a owl:NamedIndividual; a cdo:EventLog; cdo:hasEvent ?event . ?event a ?eventType . FILTER (?eventType NOT IN</pre>	cdo:InsertSourceDat a	Yes

	(owl:NamedIndividual)) }		
Why did the change occur?	SELECT ?eventReason WHERE { ?eventLog a owl:NamedIndividual; a cdo:EventLog; cdo:hasEvent ?event . ?event cdo:hasReason ?eventReason . }	"Value '12' inserted into 'ID' element." "Value '12' inserted into 'ID' element."	Yes
When will the user be notified of these changes?	SELECT DISTINCT ?policy WHERE { ?policy a owl:NamedIndividual; a rei-policy:Policy. }	ex:notificationPolicy	Yes
What is the notification method?	SELECT DISTINCT ?notificationMethod WHERE { ?obligation a owl:NamedIndividual; a rei-denontic:Obligation; rei-denontic:action ?notificationMethod. }	ex:sendNotification Action	Yes
What is the notification condition?	SELECT ?constraint WHERE { ?eventLog a owl:NamedIndividual; a rei-denontic:Obligation; rei-denontic:startingConstraint ?constraint . }	ex:notificationConstraint	Yes
Who will send the notification?	SELECT ?softwareAgent WHERE { ?eventLog a owl:NamedIndividual; a rei-denontic:Obligation; rei-denontic:obligedTo ?softwareAgent . }	ex:softwareAgent	Yes
Who owns the policy?	SELECT ?actor WHERE { ?eventLog a owl:NamedIndividual; a rei-denontic:Obligation; rei-denontic:actor ?actor . }	ex:userAgent	Yes

