

Question	ProvONE vocabulary query	YW vocabulary query
Query 1: What are the programs/blocks in the workflow?	SPARQL BASE <http://yesworkflow.org/0000000000/> PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#> PREFIX owl: <http://www.w3.org/2002/07/owl#> PREFIX p1: <http://purl.dataone.org/provone/2015/01/15/ontology#> PREFIX yw: <http://yesworkflow.org/ns/yesworkflow> SELECT DISTINCT ?program_name WHERE { ?p1_program owl:sameAs p1:Program. ?program rdf:type ?p1_program; rdfs:label ?program_name. } }	SPARQL BASE <http://yesworkflow.org/0000000000/> PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#> PREFIX owl: <http://www.w3.org/2002/07/owl#> PREFIX p1: <http://dataone.org/ns/provone#> PREFIX yw: <http://yesworkflow.org/ns/yesworkflow> SELECT DISTINCT ?block_name WHERE { ?block rdf:type yw:Block; rdfs:label ?block_name. } }
Query 2: What is the top-level workflow name and description of it?	SPARQL BASE <http://yesworkflow.org/0000000000/> PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#> PREFIX owl: <http://www.w3.org/2002/07/owl#> PREFIX p1: <http://purl.dataone.org/provone/2015/01/15/ontology#> PREFIX yw: <http://yesworkflow.org/ns/yesworkflow> SELECT DISTINCT ?wf_name ?wf_description WHERE { ?p1_workflow owl:sameAs p1:Workflow. ?wf rdf:type ?p1_workflow; rdfs:label ?wf_name; rdfs:comment ?wf_description. } }	SPARQL BASE <http://yesworkflow.org/0000000000/> PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#> PREFIX owl: <http://www.w3.org/2002/07/owl#> PREFIX p1: <http://dataone.org/ns/provone#> PREFIX yw: <http://yesworkflow.org/ns/yesworkflow> SELECT DISTINCT ?yw_name ?yw_description WHERE { ?yw rdf:type yw:Workflow; rdfs:label ?yw_name; rdfs:comment ?yw_description . } }
Query 3: What are the names of the inputs to the top-level workflow?	SPARQL BASE <http://yesworkflow.org/0000000000/> PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#> PREFIX owl: <http://www.w3.org/2002/07/owl#> PREFIX p1: <http://purl.dataone.org/provone/2015/01/15/ontology#> PREFIX yw: <http://yesworkflow.org/ns/yesworkflow> SELECT DISTINCT ?port_name WHERE {	SPARQL BASE <http://yesworkflow.org/0000000000/> PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#> PREFIX owl: <http://www.w3.org/2002/07/owl#> PREFIX p1: <http://dataone.org/ns/provone#> PREFIX yw: <http://yesworkflow.org/ns/yesworkflow> SELECT DISTINCT ?port_name WHERE { ?yw rdf:type yw:Workflow; rdfs:label ?yw_name;

	<pre> ?port owl:sameAs p1:Port. ?sub_port rdf:type rdfs:Class; rdfs:subClassOf ?p1_port. ?input_port rdf:type ?sub_port; rdfs:label ?port_name. ?workflow owl:sameAs p1:Workflow. ?hasInPort owl:sameAs p1:hasInPort. ?wf rdf:type ?workflow; ?hasInPort ?input_port. </pre>	<pre> yw:hasInPort ?port. ?port rdf:type yw:Port; rdfs:label ?port_name; yw:connectsTo ?data. ?data rdf:type yw:Data. } </pre>
Query 4: What are the output ports of the program "collect_data_set"?	<pre> SPARQL BASE <http://yesworkflow.org/0000000000/> PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#> PREFIX owl: <http://www.w3.org/2002/07/owl#> PREFIX p1: <http://purl.dataone.org/provone/2015/01/15/ontology#> PREFIX yw: <http://yesworkflow.org/ns/yesworkflow> SELECT DISTINCT ?port_name WHERE { ?port owl:sameAs p1:Port. ?sub_port rdf:type rdfs:Class; rdfs:subClassOf ?port. ?output_port rdf:type ?sub_port; rdfs:label ?port_name. ?program owl:sameAs p1:Program. ?hasOutPort owl:sameAs p1:hasOutPort. ?collect_data_set rdf:type ?program; ?hasOutPort ?output_port; rdfs:label "collect_data_set". } </pre>	<pre> SPARQL BASE <http://yesworkflow.org/0000000000/> PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#> PREFIX owl: <http://www.w3.org/2002/07/owl#> PREFIX p1: <http://dataone.org/ns/provone#> PREFIX yw: <http://yesworkflow.org/ns/yesworkflow> SELECT DISTINCT ?data_name ?data_description WHERE { ?port rdf:type yw:Port; rdfs:label ?port_name; yw:connectsTo ?data. ?block rdf:type yw:Block; rdfs:label ?block_name; yw:hasOutPort ?port . ?data rdf:type yw:Data; rdfs:label ?data_name; rdfs:comment ?data_description. FILTER regex(?block_name, "collect_data_set") } ORDER BY ?data_name </pre>