

Question	SPARQL Query
1. Print all of the ports, including all Input, Output & Param ports	<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 rdf:type/rdfs:subClassOf* yw:Port; rdfs:label ?port_name. } </pre>
2. Print all of the “In” ports, including Input & Param ports	<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 rdf:type/rdfs:subClassOf* yw:InPort; rdfs:label ?port_name. } </pre>
3. Print only Param ports	<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 rdf:type yw:ParamPort; rdfs:label ?port_name. } </pre>
4. Print only Input Ports (which are “In” ports, but not Param port”)	<p>- 2 ways to do this:</p> <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 rdf:type yw:InPort; rdfs:label ?port_name. } </pre> <p>OR</p> <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 rdf:type/rdfs:subClassOf* yw:InPort; rdfs:label ?port_name. FILTER (NOT EXISTS {?port rdf:type yw:ParamPort}) } </pre>