Test cases for GQL4JUNG Schema

Test Cases for Query 1

Query Name:		*No Decoupling Through Abstraction*			
Test I D	**Status**	**Test Detail**	**Test Data**	**Expected Result**	**Actual Result**
	Executed	Test the cardinality constraint for query. Build a query with no elements.	Nil	Schema should validate the query.	Error: The element query is not complete. Test fails
1.1	Executed	Change the string value of true/false with 1/0 respectively.	True,false	Schema should validate the query.	Schema validates the query successfully.
1.2	Executed	Change the minLength and maxLength values in PATH element.	0, -42	minLength should not accept 0 and maxLength should not accept a negative value.	Error: does not accept MinLength as 0. -42 is also not accepted by schema.
1.3	Executed	Replace OR operator in the PATH element with AND operator	AND	Schema should validate AND operator	Error: schema does not validate AND operator.
1.4	Executed	Add XOR element in Path element.	XOR	Schema should validate XOR operator	Error: schema does not validate XOR operator.
1.5	Executed	Replaced order of FROM and TO attribute in PATH element	FROM, TO attributes	Replacing sequence should not affect, schema should validate	Schema validates the query successfully.
1.6	Executed	Run the query without changing it.	Vertex, path	Schema should validate the query	Schema validates the query successfully.

Test Cases for Query 2

Query Name:		*Circular dependency between packages*			
Test I D	**Status**	**Test Detail**	**Test Data**	**Expected Result**	**Actual Result**
2.1	Executed	Check circular dependency between packages as well as among classes	Vertex, path, condition, not	Schema should validate the query and should allow detection of circular dependency among classes	Schema validates the query successfully.
2.2	Executed	Execute query without making any changes	Vertex, path, condition, not	Schema should validate the query.	Schema validates the query successfully.

Test Cases for Query 3

Query Name:		*No class should depend on UI and DB classes*			
Test I D	**Status**	**Test Detail**	**Test Data**	**Expected Result**	**Actual Result**
3.1	Executed	Insert a vertex element without any child elements	Vertex	Schema should not validate this query. Property element should be included	Schema does not validate the query (vertex element without property child element)
3.2	Executed	Remove the value element from OR element	Value, Or	Schema should not validate the schema	Error: vertex element is not complete, schema does not validate query.
3.3	Executed	Execute query without making any changes	Vertex, or, path,	Schema should validate the query.	Schema validates the query successfully.

Test Cases for Query 4

Query Name:		*Packages with multiple clusters within the package*			
Test I D	**Status**	**Test Detail**	**Test Data**	**Expected Result**	**Actual Result**
4.1	Executed	Remove condition elements from query and run it	Vertex, exists_not, not	Schema should not validate the query without any condition attribute.	Schema validates the query successfully.
4.3	Executed	Execute query without making any changes	Vertex, condition, exists_not, not	Schema should validate the query.	Schema validates the query successfully.