Enhanced querying with JQL

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JQL Functions

The following JQL functions are available for querying Xray issues in the Issue Search Page. They enable you to query the relationships between Xray issue types.

testExecutionTests

JQL Function	Parameters	Description	Example	
testTes tSet	P1 - Test Issue Key	Returns a list of Test Set issues associated with the input Test issue key.	<pre>issuetype = 'Test Set' and key in testTestSet('DEMO-1')</pre>	
testSet Tests	P1 - Test Set Issue Key /Filter of Test Sets	Returns a list of Test issues associated with the input Test Set issue key.	<pre>(1) issuetype = 'Test' and key in testSetTests ('DEMO-5') (2) issuetype = 'Test' and key in testSetTests('Test sets saved filter')</pre>	
testsW ithNoT estSet	P1 - Saved filter Name/ID	Returns a list of Test issues not associated with a Test Set.	<pre>(1) issue in testsWithNoTestSet() (2) issue in testsWithNoTestSet("saved_filter")</pre>	

testPre Conditi ons	P1 - Test Issue Key	Returns the Pre-Condition issues associated with the input Test issue key.	<pre>issuetype = 'Pre-Condition' and key in testPreConditions('DEMO-1')</pre>	
preCon ditionT ests	P1 - Pre-Condition Issue Key	Returns the Test issues associated with the input Pre- Condition issue key.	<pre>issuetype = 'Test' and key in preConditionTests('DEMO-1')</pre>	
testRe quirem ents	P1 - Test Issue Key/Filter name of Tests	Returns a list of Requirement issues associated with the input Test issue key/Filter of tests.	<pre>(1) issuetype = 'Feature' and key in testRequirements('DEMO-1') (2) issuetype = 'Feature' and key in testRequirements('Tests saved filter')</pre>	
require mentT ests	P1 - Requirement Issue Key/Filter of Requirement Issues	Returns a list of Test issues associated with the input Requirement issue key or saved filter with Requirements.	<pre>(1) issuetype = 'Test' and key in requirementTests('DEMO-10') (2) issuetype = 'Test' and key in requirementTests('Requirements saved filter')</pre>	
testsW ithReq Version	P1 - Project Name/Key/Id P2 - Fix Version P3 - Fix Version (Optional) Pn - Fix Version (Optional)	Returns a list of Test issues associated with the Requirement issues of the input Fix Versions of the specified project.	<pre>issuetype = 'Test' and issue in testsWithReqVersion('DEMO',</pre>	
testsW ithTest SetVer sion	P1 - Project Name/Key/Id P2 - Fix Version P3 - Fix Version (Optional) Pn - Fix Version (Optional)	Returns a List of Test issues associated with the Test Set issues of the input Fix Versions of the specified project.	<pre>issuetype = 'Test' and issue in testsWithTestSetVersion('DEMO',</pre>	
testEx ecutio nTests	P1 - Test Execution Issue Key/Id or Filter ID P2 - Test Run Status list separated by " "(pipe) (Optional) P3 - User assigned to execute Test Run (Optional). P4 - Defects Flag with value in true or false (nee ds to be true or false). P5 - User who executed the Test Run (optional). P6 - Existence of comments (Optional) P7 - Existence of evidences (Optional)	Returns a List of Test issues associated with the input Test Execution issues from P1 optionally filtered by the current test run status for each Test issue. Parameter P1 can either be a single Test Execution issue key, an ID or a saved filter containing multiple Test Execution issues. Possible Test Run Status values are: PASS, FAIL, EXECUTING, ABORTED, TODO and all custom statuses. P3 corresponds to the user assigned to execute the Test Run, while P5 corresponds to the one who actually executed it. For analyzing the joint values of all Test Run Assignees, "" should be used. For taking into account the Test Runs without any Assignee, then "NULL" should be used. If you pass true as the value for P4, the query returns all Tests from a particular set of Test Executions where no Defects were created.	<pre>(1) issuetype = 'Test' and issue in testExecutionTests('DEMO-9') (2) issuetype = 'Test' and issue in testExecutionTests('DEMO-9',</pre>	
			<pre>issuetype = 'Test' and issue in testExecutionTests(</pre>	

	P8 - Started from			'Saved Test Execution
	(symbols >/< are read as bigger, exactly/smaller or		Filter',	Saved lest Execution
	exactly, respectively; the = sign or the full absense			'PASS')
	of signs is read as exactly		(5)	
	P9 - Finished on (symbols		issuetype = 'Test'	
	>/< are read as bigger, exactly/smaller or exactly,		and issue in testE	
	respectively; the = sign o r the full absense of signs		Filter',	'Saved Test Execution
	is read as exactly)			11,
				'user A')
			(6)	
			issue in testExecution	nTests(
			Filter',	'Saved Test Execution
				11,
				'user A', 'true')
			(7)	
			issue in testExecution	nTests(
			Filter',	'Saved Test Execution
				",", 'false', 'admin')
			(8)	,
			issuetype = 'Test'	
			and issue in testExec	cutionTests(
				'CALC-397',
				",
				,
				'false',
				,
				'true',
				'false',
				'>2016-05-31',
				'<2016-06-30')
testsW	P1 - Saved filter Name/ID	Returns a list of Tests that are not associated with a Test Execution to be executed	(1)	
ithoutT estExe			<pre>issuetype = Test and testsWithoutTestExecu</pre>	
cution			(2)	
			issuetype = Test and testsWithoutTestExecu	

require ments

P1 - Status list separated by "|"(pipe)

P2 - Project (Optional)

P3 - Version to calculate requirement status (Optional)

P4 - Test Environment (Optional)

P5 - Flat (Optional)

P6 - ToDate (Optional)

P7 - Saved Filter (Optional)

Returns a list of Requirement Issues with the provided coverage status.

Please provide *Project* parameter (P2) to restrict the requirements to the specified project.

If analyzing on a specific version, then the Project and Versio n parameters must be filled.

Optional filters include:

Test Environment, for taking into account the Test Executions made for that environment. For analyzing the joint values of all environments, "" should be used. For taking into account the Test Executions without any Test Environment assigned, then "__NULL__" should be used.

Flat that indicates whether all Requirements (not only parents) should be searched. If "Flat" is not provided, the default value is 'false'.

ToDate considers only those requirements executions before a specific date/time (the date literal must follow the ISO8601 format).

Saved Filters considers only requirements from that specific filter.

(1)

issue in requirements('OK','Calculator')



(2)

Please note

Although optional, it is highly recommended to specify the *Project* parameter as means to define the project having the requirments and thus reduce the amount of issues that will be processed/returned. Otherwise, requirements from *all* JIRA projects will be processed, which possibly is something that you don't want or need at all

```
priority = Major and fixVersion <= 'v3.0' and
   issue in requirements('NOK', 'Calculator',
'V4.0')
(3)
issue in
   requirements('NOK', '', '', '', '', '2014-
01-01')
(4)
issue in
   requirements('OK',
             'Calculator',
             'v1.0',
             'chrome'
              'false'
             '2014-08-30')
(5)
issue in
   requirements('NOK',
             'Calculator',
             'v2.0',
             'true')
(6)
issue in
    requirements('NOK',
                  'Calculator',
                  'v2.0',
                  'chrome',
                  'false',
                  'Requirements saved filter')
```

require ments	P1 - Status list separated by " "(pipe)	Returns a list of Requirement Issues with the coverage status calculated for the given Test Plan issue.	(1) issue in	
WithSt atusBy	P2 - Test Plan Issue Key		requirementsWithStatusByTestPlan('OK', 'TP-123')	
	P3 - Test Environment (Optional)	Optional filters include:		
TestPl	P4 - Flat (Optional) P5 - ToDate (Optional)	Test Environment, for taking into account the Test Executions made for that environment. For analyzing the joint	(2)	
an		values of all environments, "" should be used. For taking into account the Test Executions without any Test Environment	issue in	
	P6 - Project (Optional)	assigned, then "NULL" should be used.	requirementsWithStatusByTestPlan('NOK',	
	P7 - Saved Filter	Flat that indicates whether all Requirements (not only parents) should be searched. If "Flat" is not provided, the	'TP-123',	
	(Optional)	default value is 'false'.	'',	
		ToDate considers only those requirements executions before a specific date/time (the date literal must follow the ISO8601 format).	'true') (3)	
		Project and Saved Filters considers only requirements from	issue in	
		that specific project or filter.	requirementsWithStatusByTestPlan('NOK',	
			'TP-123',	
			'Android',	
			'false',	
			12014-01-	
			(4)	
			<pre>issue in requirementsWithStatusByTestPlan('NOK',</pre>	
			'Android',	
			'false',	
			'Calculator',	
			'Requirements saved filter')	
defects	P1 - Test Issue Key/Filter of Test Issues	Return a list of defects created during the execution of the specified Tests.	(1)	
Create	or root isoacc	specified Tests.	issue in defectsCreatedDuringTesting()	
dDurin			(2)	
gTesti ng			issue in defectsCreatedDuringTesting("TEST-123")	
			(3)	
			issue in defectsCreatedDuringTesting ("saved_filter")	
defects	P1 - Test Execution issue	Returns a list of Defects created during the execution of the	(1) issue in	
Create	Key or Test Execution based Filter	specified Test Executions; can optionally be filtered by the Defect Issue Assignee username.	defectsCreatedDuringTestExecution(TEST-123)	
dDurin	P2 - List of users		(2) issue in	
gTestE xecution	separated by " " (pipe). (Optional) 1		<pre>defectsCreatedDuringTestExecution (saved_filter)</pre>	
			(3) issue in	
			<pre>defectsCreatedDuringTestExecution (saved_filter, 'user1 user2')</pre>	
			(4) issue in	
			defectsCreatedDuringTestExecution(TEST-	
			123, 'user1 user2')	

defects Create dForRe quirem ent manual Tests Withou tSteps	P1 - Requirement key or saved filter P1 - Saved filter Name/ID	Returns a list of defects created during the execution of Tests covering the specified requirements. Returns a list of manual tests that have no test steps.	<pre>issue in defectsCreatedForRequirement("REQ- 123") (2) issue in defectsCreatedForRequirement ("saved_filter") (1) issue in manualTestsWithoutSteps() (2) issue in manualTestsWithoutSteps ("saved_filter")</pre>
testTes tExecu tions	P1 - Test Issue Key/Id or Filter Name/Id P2 - Test Run Status list separated by " "(pipe) (Op tional)	Returns a list of test executions associated with the input Test Issues from <i>P1</i> optionally filtered by the current Test status in each Test Execution issue. Parameter <i>P1</i> can either be a single Test issue key or Id or a saved filter name or id containing multiple Test issues. Possible Test Run Status values are: PASS, FAIL, EXECUTING, ABORTED, TODO and all custom statuses.	<pre>(1) issuetype = 'Test Execution' and issue in testTestExecutions('DEMO-9') (2) issuetype = 'Test Execution' and issue in testTestExecutions('DEMO-9',</pre>
testEx ecWith TestRu nsAssi gnedT oUser	P1 - Username (Optional) P2 - Status (Optional) Username is required in case we use this parameter	Returns a list of test executions where a user has at least one test run assigned to him. You can optionally specify a user with P1, or if the user is omitted the current user will be used. Note that if you are not logged in to JIRA, a user must be specified. If you use status parameter then user is required	<pre>(1) issuetype = 'Test Execution' and issue in testExecWithTestRunsAssignedToUser() (2) issuetype = 'Test Execution' and issue in testExecWithTestRunsAssignedToUser ('userDPC') (3) issuetype = 'Test Execution' and issue in testExecWithTestRunsAssignedToUser ('userDPC', "FAIL")</pre>
testSet Partiall yIn	P1 - Test Execution Issue Key/Test Plan Issue Key /Id or Filter Id	Return a list of Test Sets that have at least one test in P1.	<pre>(1) issuetype = 'Test Set' and issue in testSetPartiallyIn('DEMO-15') (2) issuetype = 'Test Set' and issue in testSetPartiallyIn('testExecList') (3) issuetype = 'Test Set' and</pre>

testSet	P1 - Test Execution Issue Key/Test Plan Issue Key	Return a list of Test Sets that have all its tests in P1.	(1)
FullyIn	/ld or Filter Id		issuetype = 'Test Set' and
			issue in testSetFullyIn('DEMO-15')
			(2)
			issuetype = 'Test Set' and
			<pre>issue in testSetFullyIn('testExecList')</pre>
			(3)
			issuetype = 'Test Set' and
			issue in testSetFullyIn('testPlanList')
testPla	P1 - Test Plan Key/ Filter	Returns a list of tests that are associated with the test plan.	(1)
nTests	of Test Plans	The "status" parameter is optional and allows to filter Test	issue in testPlanTests("DEMO-10")
	P2 - Status (Optional)	issues in a specific Plan with the specified execution status. If the "status" parameter is present, users might also pass the	(2)
	P3 - Environment (Optional)	"environment" parameter. If this parameter is filled, Xray will provide all Tests in a Test Plan that are in the specified "status" and for the specified "environment".	issue in testPlanTests("Test Plans saved filter","TODO")
			(3)
			issue in testPlanTests("DEMO-10","TODO")
			(4)
			issue in testPlanTests("DEMO-10","TODO","IOS")
			When searching for Tests with a certain status inside a Test Plan, we recommend you to use the
			custom field search instead.
			Xray has created a new way of searching with big improvements when filtering by test status, using the Custom Fields: (3) issuetype = Test and TestRunStatus = "DEMO-10 - TODO" (4) issuetype = Test and TestRunStatus = "DEMO-10 - TODO environment:IOS"
1 - 1 - 1 - 1	P1 - Test Plan Key/Filter	Returns a list of test executions that are associated with a	(1)
testPla nTestE	of Test Plans	Test Plan or a saved filter of Test Plans.	issue in testPlanTestExecutions("DEMO-10")
xecutio			
ns			(2)
			<pre>issue in testPlanTestExecutions("Test Plans saved filter")</pre>
testPla	P1 - Test Plan Key/Filter	Returns the Requirement issues that are indirectly	(1)
nRequi	of Test Plans	associated, through Test issues, with a Test Plan or a saved filter of Test Plans.	issue in testPlanRequirements("DEMO-20")
rements			(2)
			issue in testPlanRequirements("Test Plans saved filter")
4 4=	P1 - Tast Issue Kov	Returns a List of Test Plan issues associated with the input	issuetype = 'Test Plan'
testTes	P1 - Test Issue Key	Test issue key.	
tPlan			and key in testTestPlan('DEMO-1')
		1	

testRe positor yFolde rTests testPla nFolde rTests	P1 - Project Key P2 - Folder Path P3 - Flatten (Optional) P1 - Test Plan Key P2 - Folder Path P3 - Flatten (Optional) P4 - Test Run Status (Optional) P5 - Test Environment (Optional)	Returns the list of Tests contained in a folder (P2) of the Test Repository of a Project (P1) May optionally include the Tests in sub-folders by setting Flatten (P3) to "true". Returns the list of Tests contained in a folder (P2) of a Test Plan (P1). May optionally include the Tests in sub-folders by setting Flatten (P3) to "true". Can also filter by Tests Run Status (P4) for a given Test Environment (P5). To analyze the joint values of all Test Environments, "" should be used. To analyze the Test Executions without any Test Environment assigned, then "NULL" should be used.	issue in testRepositoryFolderTests("CALC", 'Parent/Child') (2) issue in testRepositoryFolderTests("CALC", 'Parent/Child', "true") (1) issue in testPlanFolderTests(CALC-10, 'Parent/Child') (2) issue in testPlanFolderTests(CALC-10, 'Parent/Child', "true") (3) issue in testPlanFolderTests(CALC-10, 'Parent/Child', "true", "TODO FAIL", "windows")
project Parent Requir ements	P1 - Project Key	Returns the list of Requirement issues, from a given Project, which are not Sub-requirements	(1) issue in projectParentRequirements("CALC")
testEx ecutio nsWith Compl etedTe stRuns Since	P1 - Date P2 - Filter ID/Name (Optional)	Return the list of Test execution (belonging to the given filter) that have Test Runs finished since the given date.	(1) issue in testExecutionsWithCompletedTestRunsSince (2022-01-01) (2) issue in testExecutionsWithCompletedTestRunsSince (2022-01-01 12:00, "Current Sprint TestExecs") (3) issue in testExecutionsWithCompletedTestRunsSince(-3 d, 10101)
testPla nsWith Compl etedTe stRuns Since	P1 - Date P2 - Filter ID/Name (Optional)	Return the list of Test Plans (belonging to the given filter) that have Test Runs finished since the given date.	(1) issue in testPlansWithCompletedTestRunsSince(2022-01-01) (2) issue in testPlansWithCompletedTestRunsSince(2022-01-01 12:00, "Current Sprint TestPlans") (3) issue in testPlansWithCompletedTestRunsSince(-3d, 10101)

Custom Fields

Xray also provides custom fields to allow more refined queries when searching for issues.

JQL Function	Issue Type	Description	Example
Test Type	Test	The Test type: Manual; Cucumber; Generic	<pre>issuetype = 'Test' and "Test Type" = "Manual"</pre>

TestRu **nStatus**

Test

This is a calculated custom field that provides the latest Test Run status based on the current "Test Run Status Version Strategy" option configured in the Xray administration.

<u>Syntax</u>: TestRunStatus = "[Group (version or TestPlan)] - [Status] environment:[environment]"

Only the Status is mandatory; if only the status is provided, Xray will assume you are searching for the

Xray will lookup for all Tests with Status in that particular version and environment.

Read more about Status and environments.



(i) Test Run Status

The latest Test Run Status is calculated based on the latest final Test Run (i.e., latest finish date) or, in case there are no final Test Runs, the latest non-final Test Run (i.e., latest start date). Please see the custom fields preferences page.

For consistent results when searching for TestPlan results, filter with the testPlanTests function.

```
issuetype = 'Test'
and TestRunStatus in
("FAIL", "ABORTED")
issuetype = 'Test'
and TestRunStatus = "PASS"
issue in testPlanTests
("TESTPLAN-123")
and TestRunStatus =
"TESTPLAN-123 - PASS"
issue in testPlanTests
("TESTPLAN-123")
   and TestRunStatus =
"TESTPLAN-123 - TODO"
issuetype = 'Test'
   and TestRunStatus =
"FAIL environment:Android"
issuetype = 'Test'
and TestRunStatus =
"v3.0 - PASS environment:
Android"
issue in testPlanTests ("TESTPLAN-123")
   and TestRunStatus =
"TESTPLAN-123 - PASS
environment:Android"
```

Require ment Status	Require ment	This is a calculated custom field that provides the requirement coverage status. Possible status values are: OK - All tests passed the requirement NOK - At least one test failed NOTRUN - At least one test did not run UNCOVERED - The requirements is not associated with tests testTestExecutions Syntax: "Requirement Status" = "[Group (version or TestPlan)] - [Status] environment:[environment]" Only the Status is mandatory; if only the status is provided, Xray will assume you are searching for the latest execution Xray will lookup for all Requirements with Status in that particular version and environment. Read more about Status and environments. Requirement Coverage For more information, please check out our page dedicated to requirements coverage. If the Requirements Coverage Strategy depends on the version, then you must also include the actual version name and the status when you do the search. The syntax: "[version name] - [status]"	<pre>issuetype = 'New Feature' and "Requirement Status" = "OK" - issuetype = 'New Feature' and "Requirement Status" in ("NOTRUN", "UNCOVERED") - issuetype = 'New Feature' and "Requirement Status" = "v1.0 - OK" - issuetype = 'New Feature' and "Requirement Status" = "v1.0 - OK environment:Android"</pre>
Steps Count	Test	The number of Steps in a Manual Test	issuetype = 'Test' and "Steps Count" = 3
Manual Test Steps	Test	Find Tests by text present in the Manual Test Steps fields	issuetype = 'Test' and "Manual Test Steps" ~ "Login with user administrator"



The Test Set Status and Test Plan Status custom fields, mentioned in Custom Fields, are not queryable.