

Enhanced querying with JQL

- [JQL Functions](#)
- [Custom Fields](#)


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.

JQL Function	Parameters	Description	Example
testTestSet	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>
testSetTests	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>
testsWithNoTestSet	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>
testPreConditions	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>
preConditionTests	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>
testRequirements	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>
requirementTests	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>


testsWithReqVersion	P1 - Project Name/Key/Id P2 - Fix Version <i>P3 - Fix Version (Optional)</i> ... <i>Pn - Fix Version (Optional)</i>	Returns a list of Test issues associated with the Requirement issues of the input Fix Versions of the specified project.	issuetype = 'Test' and issue in testsWithReqVersion('DEMO', 'v1.0', 'v1.1')
testsWithTestSetVersion	P1 - Project Name/Key/Id P2 - Fix Version <i>P3 - Fix Version (Optional)</i> ... <i>Pn - Fix Version (Optional)</i>	Returns a List of Test issues associated with the Test Set issues of the input Fix Versions of the specified project.	issuetype = 'Test' and issue in testsWithTestSetVersion('DEMO', 'v1.0', 'v1.1')

testExecutionTests	<p>P1 - Test Execution Issue Key/Id or Filter ID</p> <p>P2 - Test Run Status list separated by " " (pipe) (Optional)</p> <p>P3 - User assigned to execute Test Run (Optional).</p> <p>P4 - Defects Flag with value in true or false (optional).</p> <p>P5 - User who executed the Test Run (optional).</p>	<p>Returns a List of Test issues associated with the input Test Execution issues from <i>P1</i> optionally filtered by the current test run status for each Test issue.</p> <p>Parameter <i>P1</i> can either be a single Test Execution issue key, an ID or a saved filter containing multiple Test Execution issues.</p> <p>Possible Test Run Status values are: PASS, FAIL, EXECUTING, ABORTED, TODO and all custom statuses.</p> <p>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.</p> <p>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.</p>	<pre> (1) issuetype = 'Test' and issue in testExecutionTests('DEMO-9') (2) issuetype = 'Test' and issue in testExecutionTests('DEMO-9', 'PASS') (3) issuetype = 'Test' and issue in testExecutionTests('DEMO-9', 'PASS', 'user A') (4) issuetype = 'Test' and issue in testExecutionTests('Saved Test Execution Filter', 'PASS') (5) issuetype = 'Test' and issue in testExecutionTests('Saved Test Execution Filter', '', 'user A') (6) issue in testExecutionTests('Saved Test Execution Filter', '', 'user A', 'true') (7) issue in testExecutionTests('Saved Test Execution Filter', '', '', 'false', 'admin') </pre>
testsWithoutTestExecution	<p>P1 - Saved filter Name/ID</p>	<p>Returns a list of Tests that are not associated with a Test Execution to be executed</p>	<pre> (1) issuetype = Test and issue in testsWithoutTestExecution() (2) issuetype = Test and issue in testsWithoutTestExecution("saved_filter") </pre>

requirements	<p>P1 - Status list separated by " " (pipe)</p> <p>P2 - <i>Project</i> (Optional)</p> <p>P3 - <i>Version to calculate requirement status</i> (Optional)</p> <p>P4 - <i>Test Environment</i> (Optional)</p> <p>P5 - <i>Flat</i> (Optional)</p> <p>P6 - <i>ToDate</i> (Optional)</p> <p>P7 - <i>Saved Filter</i> (Optional)</p>	<p>Returns a list of Requirement Issues with the provided coverage status.</p> <p>Please provide <i>Project</i> parameter (P2) to restrict the requirements to the specified project.</p> <p>If analyzing on a specific version, then the <i>Project and Version</i> parameters must be filled.</p> <p><u>Optional</u> filters include:</p> <p><i>Test Environment</i>, 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.</p> <p><i>Flat</i> that indicates whether all Requirements (not only parents) should be searched. If "Flat" is not provided, the default value is 'false'.</p> <p><i>ToDate</i> considers only those requirements executions before a specific date/time (the date literal must follow the ISO8601 format).</p> <p><i>Saved Filters</i> considers only requirements from that specific filter.</p>	<pre>(1) issue in requirements('OK','Calculator')</pre> <div data-bbox="951 258 1484 489">  <p>Please note</p> <p>Although optional, it is highly recommended to specify the <i>Project</i> parameter as means to define the project having the requirements and thus reduce the amount of issues that will be processed/returned. Otherwise, requirements from <i>all</i> JIRA projects will be processed, which possibly is something that you don't want or need at all.</p> </div> <pre>(2) 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')</pre>
--------------	---	---	--

requirementsWithStatusByTestPlan	<p>P1 - Status list separated by " " (pipe)</p> <p>P2 - Test Plan Issue Key</p> <p>P3 - Test Environment (Optional)</p> <p>P4 - Flat (Optional)</p> <p>P5 - ToDate (Optional)</p> <p>P6 - Project (Optional)</p> <p>P7 - Saved Filter (Optional)</p>	<p>Returns a list of Requirement Issues with the coverage status calculated for the given Test Plan issue.</p> <p><u>Optional</u> filters include:</p> <p><i>Test Environment</i>, 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.</p> <p><i>Flat</i> that indicates whether all Requirements (not only parents) should be searched. If "Flat" is not provided, the default value is 'false'.</p> <p><i>ToDate</i> considers only those requirements executions before a specific date/time (the date literal must follow the ISO8601 format).</p> <p><i>Project</i> and <i>Saved Filters</i> considers only requirements from that specific project or filter.</p>	<pre>(1) issue in requirementsWithStatusByTestPlan('OK', 'TP-123') (2) issue in requirementsWithStatusByTestPlan('NOK', 'TP-123', '', 'true') (3) issue in requirementsWithStatusByTestPlan('NOK', 'TP-123', 'Android', 'false', '2014-01-01') (4) issue in requirementsWithStatusByTestPlan('NOK', 'TP-123', 'Android', 'false', '', 'Calculator', 'Requirements saved filter')</pre>
defectsCreatedDuringTesting	<p>P1 - Test Issue Key /Filter of Test Issues</p>	<p>Return a list of defects created during the execution of the specified Tests.</p>	<pre>(1) issue in defectsCreatedDuringTesting() (2) issue in defectsCreatedDuringTesting("TEST-123") (3) issue in defectsCreatedDuringTesting ("saved_filter")</pre>
defectsCreatedDuringTestExecution	<p>P1 - Test Execution issue Key or Test Execution based Filter</p> <p>P2 - List of users separated by " " (pipe). (Optional)</p>	<p>Returns a list of Defects created during the execution of the specified Test Executions; can optionally be filtered by the Defect Issue Assignee username.</p>	<pre>(1) issue in defectsCreatedDuringTestExecution(TEST-123) (2) issue in defectsCreatedDuringTestExecution(saved_filter) (3) issue in defectsCreatedDuringTestExecution (saved_filter, 'user1 user2') (4) issue in defectsCreatedDuringTestExecution(TEST-123, 'user1 user2')</pre>
defectsCreatedForRequirement	<p>P1 - Requirement key or saved filter</p>	<p>Returns a list of defects created during the execution of Tests covering the specified requirements.</p>	<pre>(1) issue in defectsCreatedForRequirement("REQ-123") (2) issue in defectsCreatedForRequirement ("saved_filter")</pre>

manualTestsWithoutSteps	P1 - Saved filter Name/ID	Returns a list of manual tests that have no test steps.	<p>(1)</p> <pre>issue in manualTestsWithoutSteps()</pre> <p>(2)</p> <pre>issue in manualTestsWithoutSteps("saved_filter")</pre>
testTestExecutions	<p>P1 - Test Issue Key/Id or Filter Name /Id</p> <p>P2 - Test Run Status list separated by " " (pipe) (Optional)</p>	<p>Returns a list of test executions associated with the input Test Issues from P1 optionally filtered by the current Test status in each Test Execution issue.</p> <p>Parameter P1 can either be a single Test issue key or Id or a saved filter name or id containing multiple Test issues.</p> <p>Possible Test Run Status values are: PASS, FAIL, EXECUTING, ABORTED, TODO and all custom statuses.</p>	<p>(1)</p> <pre>issuetype = 'Test Execution' and issue in testTestExecutions('DEMO-9')</pre> <p>(2)</p> <pre>issuetype = 'Test Execution' and issue in testTestExecutions('DEMO-9', 'PASS')</pre> <p>(3)</p> <pre>issuetype = 'Test Execution' and issue in testTestExecutions('Saved Test Filter', 'PASS')</pre>
testExecWithTestRunsAssignedToUser	<p>P1 - Username (Optional)</p> <p>P2 - Status (Optional) Username is required in case we use this parameter</p>	<p>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.</p> <p>If you use status parameter then user is required</p>	<p>(1)</p> <pre>issuetype = 'Test Execution' and issue in testExecWithTestRunsAssignedToUser()</pre> <p>(2)</p> <pre>issuetype = 'Test Execution' and issue in testExecWithTestRunsAssignedToUser('userDPC')</pre> <p>(3)</p> <pre>issuetype = 'Test Execution' and issue in testExecWithTestRunsAssignedToUser('userDPC', "FAIL")</pre>
testSetPartiallyIn	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.	<p>(1)</p> <pre>issuetype = 'Test Set' and issue in testSetPartiallyIn('DEMO-15')</pre> <p>(2)</p> <pre>issuetype = 'Test Set' and issue in testSetPartiallyIn('testExecList')</pre> <p>(3)</p> <pre>issuetype = 'Test Set' and issue in testSetPartiallyIn('testPlanList')</pre>



testSetFullyIn	P1 - Test Execution Issue Key /Test Plan Issue Key/Id or Filter Id	Return a list of Test Sets that have all its tests in <i>P1</i> .	<p>(1)</p> <pre>issuetype = 'Test Set' and issue in testSetFullyIn('DEMO-15')</pre> <p>(2)</p> <pre>issuetype = 'Test Set' and issue in testSetFullyIn('testExecList')</pre> <p>(3)</p> <pre>issuetype = 'Test Set' and issue in testSetFullyIn('testPlanList')</pre>
testPlanTests	<p>P1 - Test Plan Key/Filter of Test Plans</p> <p><i>P2 - Status (Optional)</i></p> <p><i>P3 - Environment (Optional)</i></p>	<p>Returns a list of tests that are associated with the test plan.</p> <p>The "status" parameter is optional and allows to filter Test issues in a specific Plan with the specified execution status. If the "status" parameter is present, users might also pass the "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".</p>	<p>(1)</p> <pre>issue in testPlanTests("DEMO-10")</pre> <p>(2)</p> <pre>issue in testPlanTests("Test Plans saved filter", "TODO")</pre> <p>(3)</p> <pre>issue in testPlanTests("DEMO-10", "TODO")</pre> <p>(4)</p> <pre>issue in testPlanTests("DEMO-10", "TODO", "IOS")</pre> <div style="border: 1px solid #f9e79f; padding: 10px; margin-top: 10px;"> <p> When searching for Tests with a certain status inside a Test Plan, we recommend you to use the custom field search instead.</p> <p>Xray has created a new way of searching with big improvements when filtering by test status, using the Custom Fields:</p> <p>(3)</p> <pre>issuetype = Test and TestRunStatus = "DEMO-10 - TODO"</pre> <p>(4)</p> <pre>issuetype = Test and TestRunStatus = "DEMO-10 - TODO environment:IOS"</pre> </div>
testPlanTestExecutions	P1 - Test Plan Key/Filter of Test Plans	Returns a list of test executions that are associated with a Test Plan or a saved filter of Test Plans.	<p>(1)</p> <pre>issue in testPlanTestExecutions("DEMO-10")</pre> <p>(2)</p> <pre>issue in testPlanTestExecutions("Test Plans saved filter")</pre>
testPlanRequirements	P1 - Test Plan Key/Filter of Test Plans	Returns the Requirement issues that are indirectly associated, through Test issues, with a Test Plan or a saved filter of Test Plans.	<p>(1)</p> <pre>issue in testPlanRequirements("DEMO-20")</pre> <p>(2)</p> <pre>issue in testPlanRequirements("Test Plans saved filter")</pre>
testTestPlan	P1 - Test Issue Key	Returns a List of Test Plan issues associated with the input Test issue key.	<pre>issuetype = 'Test Plan' and key in testTestPlan('DEMO-1')</pre>

testRepositoryFolderTests	P1 - Project Key P2 - Folder Path <i>P3 - Flatten (Optional)</i>	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".	(1) issue in testRepositoryFolderTests("CALC", 'Parent/Child') (2) issue in testRepositoryFolderTests("CALC", 'Parent/Child', "true")
testPlanFolderTests	P1 - Test Plan Key P2 - Folder Path <i>P3 - Flatten (Optional)</i> <i>P4 - Test Run Status (Optional)</i> <i>P5 - Test Environment (Optional)</i>	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.	(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")
projectParentRequirements	P1 - Project Key	Returns the list of Requirement issues, from a given Project, which are not Sub-requirements	(1) issue in projectParentRequirements("CALC")

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	issuetype = 'Test' and "Test Type" = "Manual"

TestRunStatus	Test	<p>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.</p> <p>Syntax: TestRunStatus = "[Group (version or TestPlan)] - [Status] environment:[environment]"</p> <p>Only the Status is mandatory; if only the status is provided, Xray will assume you are searching for the latest execution</p> <p>Xray will lookup for all Tests with Status in that particular version and environment.</p> <p>Read more about Status and environments.</p> <div>  Test Run Status <p>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.</p> </div>	<pre> issuetype = 'Test' and TestRunStatus in ("FAIL", "ABORTED") - issuetype = 'Test' and TestRunStatus = "PASS" - issuetype = 'Test' and TestRunStatus = "TESTPLAN-123 - PASS" - issuetype = 'Test' and TestRunStatus = "FAIL environment:Android" - issuetype = 'Test' and TestRunStatus = "v3.0 - PASS environment: Android" - issuetype = 'Test' and TestRunStatus = "TESTPLAN-123 - PASS environment:Android" - issuetype = 'Test' and TestRunStatus is EMPTY </pre>
Requirement Status	Requirement	<p>This is a calculated custom field that provides the requirement coverage status.</p> <p>Possible status values are:</p> <p>OK - All tests passed the requirement</p> <p>NOK - At least one test failed</p> <p>NOTRUN - At least one test did not run</p> <p>UNCOVERED - The requirements is not associated with tests</p> <p>testTestExecutions</p> <p>Syntax: "Requirement Status" = "[Group (version or TestPlan)] - [Status] environment:[environment]"</p> <p>Only the Status is mandatory; if only the status is provided, Xray will assume you are searching for the latest execution</p> <p>Xray will lookup for all Requirements with Status in that particular version and environment.</p> <p>Read more about Status and environments.</p> <div>  Requirement Coverage <p>For more information, please check out our page dedicated to requirements coverage.</p> <p>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]"</p> </div>	<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.