

Report - Lucene Group By

Here we show an example of creating a report for seeing the count of issues in every **project**, grouped by **issue type**.

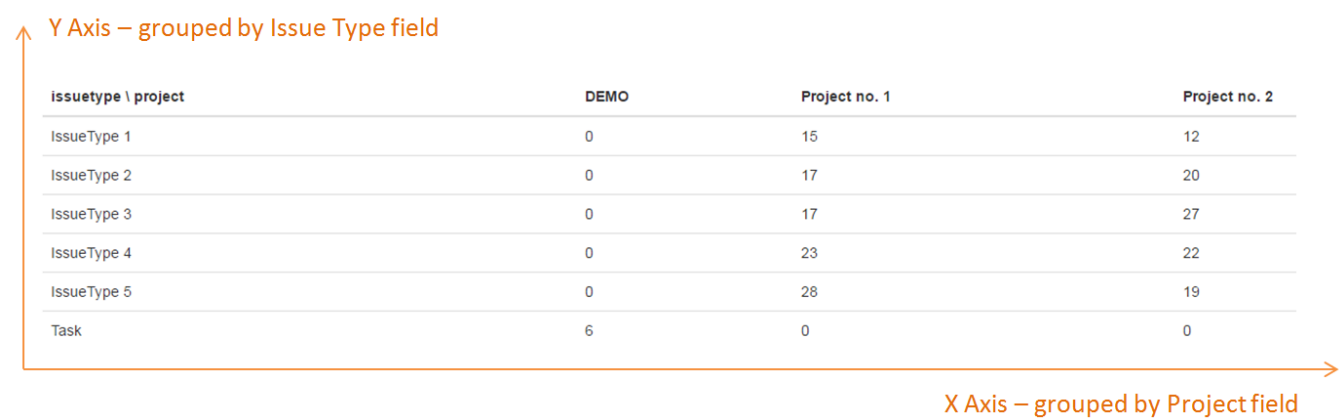
It is important to mention that the project and issue type grouping can be easily changed by introducing [parameters](#).

What the report generates can be seen in the following image (without the axes, which were added only for better understanding):

- on the horizontal axis (X), the groups are the projects
- on the vertical axis (Y), the groups are the count of issues with a certain issue type

[approve](#) [Download Scripted Chart Bundle](#)

Chart preview



Jql_Param

project in (Testing, "Test 2")

GroupBy_Picker

Project

Show chart

issuetype \ project	Test 2	Testing
Issue Type 2	799	794
Issue Type 3	756	789
Issue Type 4	809	788
Sub-task	1889	1879
Task	747	750

Parameters

Parameter	Type	Default value
Jql_Param	JQL autocomplete	
GroupBy_Picker	Group By Picker	Project

Layout Script

Used layout: [Default Table](#).

```
var div = $("#chart");
var table = d3.select(div.parent().get(0)).append('table')
var thead = table.append('thead')
var tbody = table.append('tbody');

$("#chart ~ table").addClass("table")
thead.append('tr').selectAll('th').data(chartData.columns[1]).enter().append('th')
    .text(function(column) { return column; });
$('thead > tr > th:first').text(chartData.ytype + " \\ " + chartData.xtype)

var tr = tbody.selectAll('tr').data(chartData.groups[0]).enter().append("tr");

var td = tr.selectAll("td").data(function(d) {
    var result = new Array();
    $.each(chartData.columns, function(index, value) {
        if (value[0] == d) {
            result.push.apply(result, value);
        }
    });
    return result;
}).enter().append("td").text(function(d, i) {
    return d;
});
```

Data Script

```

import java.lang.reflect.Field;
import java.math.BigDecimal;
import java.text.DateFormat;

import org.apache.lucene.document.Document;

import com.atlassian.jira.component.ComponentAccessor;
import com.atlassian.jira.issue.DocumentIssueImpl;
import com.atlassian.jira.issue.Issue;
import com.atlassian.jira.jql.parser.JqlQueryParser;
import com.atlassian.jira.user.ApplicationUser;
import com.atlassian.query.Query;

import com.decadis.jira.xchart.api.model.Period;
import com.decadis.jira.xchart.api.util.DateUtils;
import com.decadis.jira.xchart.api.model.ChartData;

DateFormat dateFormat = DateUtils.SimpleDateFormat;

JqlQueryParser jqlQueryParser = ComponentAccessor.getComponent(JqlQueryParser.class);
Query query = jqlQueryParser.parseQuery(Jql_Param); //this is the parameter we created

Period selectedPeriod = Period.MONTH;
def countGroup = chartBuilder.newDataCollector();

def groupValueExtractorX = chartBuilder.getGrouper(GroupBy_Picker); //must be a fieldid, so either Group By
Picker, or hardcoded fieldid
def groupValueExtractorY = chartBuilder.getGrouper("issuetype"); //can be replaced by a parameter

Field documentField;
documentField = DocumentIssueImpl.class.getDeclaredField("document");
documentField.setAccessible(true);

for ( Issue issue : chartBuilder.getFilterUtils().performSearch(query, user) )
{
    for ( String groupX : groupValueExtractorX.getGroups((Document) documentField.get(issue)) )
    {
        for ( String groupY : groupValueExtractorY.getGroups((Document) documentField.get(issue)) )
        {
            groupY = (groupY != null) ? groupValueExtractorY.getResolvedValue(groupY, issue) : groupY;
            groupX = (groupX != null) ? groupValueExtractorX.getResolvedValue(groupX, issue) : groupX;
            countGroup.addValue(BigDecimal.ONE, groupY, groupX);
        }
    }
}

countGroup.fillMissingValues();

ChartData chartData = chartBuilder.newChartData("issuetype");
chartData.setXType("project");
chartData.setType("table");

chartBuilder.getChartUtil().transformResult(countGroup, chartData, true);

return chartData;

```



Related examples

Title

[Using Jira Software specific classes and Pickers in Scripts](#)

[Story status category grouped by Epic and custom value](#)

[Simple Timeseries Chart](#)

[Simple Table Report](#)

[Simple Scripting Example](#)

[Report - Lucene Group By](#)

[Open issues with average](#)

[Issues in specific status \(Period\)](#)

[Group ordering in scripted charts](#)

[Gantt Diagram](#)

[Customers in a Google Map](#)

[Created vs. resolved with trend](#)

[Comments count by user in JQL result](#)

[Block Search](#)

[2Y Axes Chart](#)

[Simple External Database Chart](#)

If you still have questions, feel free to refer to our [support team](#).