Making Sense of Unstructured Data: Using JavaScript in eazyBI

Nauris Mālītis
“I’m sorry, I’m just not that into you…”

Timo Elliott https://timoelliott.com
The Plan

• Unstructured data in Jira issues

• Tools in eazyBI to transform the data

• Data hunting in Jira!
The Data in our Jira
Structured data

- Organised into fields
- Clearly defined structure, format, and data-type
- Consistent across issues and fields
Unstructured

Internal work for BCE client with duration 3 months

Structured

| Work type: | Internal |
| Client:    | BCE      |
| Duration:  | 3 months |

| Type:  | Epic |
| Priority: | Medium |
| Teams: | Team1, Team2 |
| Extent: | long-term |

(View Workflow) Unresolved backend
Why to avoid unstructured data?

- Difficult to manage and search through
- Prone to human-errors
- Complicated to analyze
Tools in eazyBI to Transform the Data
Tools in eazyBI

- Custom calculated Measures

- JavaScript calculated custom fields
Javascript calculated custom fields

Account specific

<table>
<thead>
<tr>
<th>Setting</th>
<th>User defined value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal name</td>
<td>customfield_client</td>
</tr>
<tr>
<td>Display name</td>
<td>Client</td>
</tr>
<tr>
<td>Data type</td>
<td>string</td>
</tr>
<tr>
<td>Limit</td>
<td></td>
</tr>
<tr>
<td>Dimension</td>
<td>✓</td>
</tr>
<tr>
<td>Multiple values</td>
<td></td>
</tr>
</tbody>
</table>

Add additional advanced settings

Custom JavaScript code

```
1 var smrmy = issue.fields.summary;
2 if(smrmy.indexOf('client')>0){
3   return smrmy.replace(/\.* for client.*g, "");
4 }
```

Use JavaScript code to modify the custom field value.
Test custom JavaScript code with the issue

Global settings

eazyBI settings

Advanced settings

```
1176 [jira.customfield_client]
1177 name = "Client"
1178 data_type = "string"
1179 dimension = true
1180 javascript_code = ...
1181 var smrmy = issue.fields.summary;
1182 if(smrmy.indexOf("client")>0){
1183   smrmy.replace(/\.* for client.*g, "");
1184 }
```

```
1187 [jira.customfield_teamtermlabels]
1188 name = "Team-term labels"
1189 data_type = "string"
1190 dimension = true
1191 javascript_code = ...
1192 if (issue.fields.labels.length>2)
1193   issue.fields.customfield_teamtermlabels = "Team1 mid-term";
```
Let's catch some Data!
Finding data
Finding data

Internal work for BCE client with duration 3 months

- **Type**: Epic
- **Priority**: Low
- **Affects Version/s**: None
- **Component/s**: None
- **Labels**: Team1, Team2, backend, mid-term

**Activity**

- **Sandra Adams added a comment** - 25/Oct/17 5:46 PM

Beatifies bemuse edgeways dysentery's Jayapura layette's Goldwater's misinterpretation remedial mantelpiece's Risorgimento childishness drinker's universes McCarty gust mutability's equine entire umping southwesterly browse

**People**

- **Assignee**: Anna Linda
- **Assign to me**

**Reporter**: Duncan (Big) Snow

- **Votes**: 0
  - **Vote for this issue**

**Watchers**: 0

- **Start watching this issue**

**Dates**

- **Created**: 25/Oct/17 5:46 PM
Finding data

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- **Status:** IN REVIEW
- **Resolution:** Unresolved

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How eazyBI sees Jira issues

- Jira import options
  - General
  - Add-ons
  - Custom fields
  - Additional options

  **Additional filter**
  - JQL query
    - Optional additional JQL query to limit which issues from selected projects to import. By default, all issues from selected projects will be imported.

  **Add custom JavaScript code**

  **Time dimension**
  - Time zone: Server time zone (GMT+03:00)
  - First day of the week: Monday
How eazyBI sees Jira issues
How eazyBI sees Jira issues
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How eazyBI sees Jira issues

How to catch labels?

`issue.fields.labels`
Transformation Time!
Combining labels

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Combining labels

Labels: Team1, Team2, backend, mid-term
Combining labels

Labels:

Team1  Team2  backend  mid-term

MDX

```mdx
NonZero(
  Count(
    Filter(
      Descendants([Issue].CurrentHierarchyMember,[Issue].[Issue]),
      (,[Measures].[Issues created],
        [Label].[Team1]
      ) > 0
      AND
      (,[Measures].[Issues created],
        [Label].[mid-term]
      ) > 0
    ))
)
```

JavaScript

```javascript
[jira.customfield_teamtermlabels]
name = "Team-term labels"
data_type = "string"
dimension = true
javascript_code = '"
if (issue.fields.labels.length>=2
  && issue.fields.labels.indexOf("Team1")>=0
  && issue.fields.labels.indexOf("mid-term")>=0) {
  issue.fields.customfield_teamtermlabels = "Team1 mid-term";
}
''
```
Combining labels (JS)

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name = "Team-term labels"
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Combining labels (JS)

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[jira.customfield_teamtermlabels]
name = "Team-term labels"
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dimension = true
javascript_code = '```
if (issue.fields.labels.length>=2
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}
'```
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dimension = true
javascript_code = "
if (issue.fields.labels.length>=2
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    && issue.fields.labels.indexOf("mid-term")>=0) {
    issue.fields.customfield_teamtermlabels = "Team1 mid-term";
}
"
```
Combining labels (JS)

```javascript
[jira.customfield_teamtermlabels]
name = "Team-term labels"
data_type = "string"
dimension = true
javascript_code = '```
if (issue.fields.labels.length>=2
    && issue.fields.labels.indexOf("Test")>=0
    && issue.fields.labels.indexOf("mid-term")>=0) {
    issue.fields.customfield_teamtermlabels = "Team1 mid-term";
}
```
```
Combining labels (JS)

```
[jira.customfield_teamtermlabels]
name = "Team-term labels"
data_type = "string"
dimension = true
javascript_code = ''
if (issue.fields.labels.length>=2
    && issue.fields.labels.indexOf("Team1")>=0
    && issue.fields.labels.labels.indexOf("mid-term")>=0) {
    issue.fields.customfield_teamtermlabels = "Team1 mid-term";
}
''
```
Combining labels (JS)

```javascript
[jira.customfield_teamtermlabels]
name = "Team-term labels"
data_type = "string"
dimension = true
javascript_code = ""
if (issue.fields.labels.length>=2 && issue.fields.labels.indexOf("Team1")>=0 && issue.fields.labels_labels.indexOf("mid-term")>=0) {
    issue.fields.customfield_teamtermlabels = "Team1 mid-term";
}
```

## Combining labels (JS)

### Jira import options

<table>
<thead>
<tr>
<th>Custom field</th>
<th>Import as dimension</th>
<th>Import as measure</th>
<th>Import as property</th>
<th>Import value changes</th>
<th>Advanced settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCV value</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Team-term labels</td>
<td>✅</td>
<td>❌</td>
<td>✗</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test Checkbox field</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Combining labels (JS)

<table>
<thead>
<tr>
<th>Issue</th>
<th>Issues created</th>
<th>Issue labels</th>
</tr>
</thead>
<tbody>
<tr>
<td>D11-116 Data migration work for DEF client with duration 3 months</td>
<td>1</td>
<td>mid-term,migration,team1</td>
</tr>
<tr>
<td>D11-134 Internal work for BCE client with duration 3 months</td>
<td>1</td>
<td>backend,mid-term,team1,team2</td>
</tr>
<tr>
<td>D11-151 Internal work for ABC client with duration 3 months</td>
<td>1</td>
<td>backend,mid-term,team1</td>
</tr>
</tbody>
</table>
Extracting clients
Extracting clients

Internal work for BCE client with duration 3 months

Type: Epic
Priority: Low
Affects Version/s: None
Component/s: None
Labels: Team1, Team2, backend, mid-term

Status: IN REVIEW
Resolution: Unresolved
Fix Version/s: None

People
Assignee: Anna Linda
Assign to me
Reporter: Duncan (Big) Snow
Votes: 0
Watchers: 0

Activity
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Dates
Created:
25/Oct/17 5:46 PM
# Extracting clients

<table>
<thead>
<tr>
<th>ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D11-133</td>
<td>Security work for CDE client with duration 3 months</td>
</tr>
<tr>
<td>D11-131</td>
<td>Security work for ABC client with duration 6 months</td>
</tr>
<tr>
<td>D11-137</td>
<td>Planning work for ABC client with duration 6 months</td>
</tr>
<tr>
<td>D11-147</td>
<td>External work for CDE client with duration 6 months</td>
</tr>
<tr>
<td>D11-132</td>
<td>Planning work for CDE client with duration 12 months</td>
</tr>
<tr>
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<td>D11-116</td>
<td>Data migration work for DEF client with duration 3 months</td>
</tr>
</tbody>
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Extracting clients

<table>
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<tr>
<th>Project Code</th>
<th>Description</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>D11-133</td>
<td>Security work for CDE client</td>
<td>3 months</td>
</tr>
<tr>
<td>D11-131</td>
<td>Security work for ABC client</td>
<td>6 months</td>
</tr>
<tr>
<td>D11-137</td>
<td>Planning work for ABC client</td>
<td>6 months</td>
</tr>
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</tr>
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<td>-------</td>
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Extracting clients

DEMO 001 / D11-134

Internal work for BCE client with duration 3 months
Extracting clients

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Extracting clients

Internal work for BCE client with duration 3 months

MDX

```
Right(
  Left(
    [Issue].CurrentHierarchyMember.GetCaption,
    InStr([Issue].CurrentHierarchyMember.GetCaption, "client") - 1
  ),
  Len(
    Left(
      [Issue].CurrentHierarchyMember.GetCaption,
      InStr([Issue].CurrentHierarchyMember.GetCaption, "client") - 1
    )
  ) -
  InStr([Issue].CurrentHierarchyMember.GetCaption, "for") - 3
)
```

JavaScript

```
[jira.customfield_client]
name = "Client"
data_type = "string"
dimension = true
javascript_code = '"
var smmry = issue.fields.summary;
if(smmry.indexOf("client")>=0){
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Extracting clients (JS)

<table>
<thead>
<tr>
<th>Client</th>
<th>Issue</th>
<th>ABC, BCD, BCE</th>
<th>Issues created</th>
<th>Issue priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABC</td>
<td>D11-131 Security work for ABC client with duration 6 months</td>
<td>1</td>
<td>Highest</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D11-137 Planning work for ABC client with duration 6 months</td>
<td>1</td>
<td>Highest</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D11-151 Internal work for ABC client with duration 3 months</td>
<td>1</td>
<td>Low</td>
<td></td>
</tr>
<tr>
<td>BCD</td>
<td>D11-149 Infrastructure work for BCD client with duration 1 month</td>
<td>1</td>
<td>High</td>
<td></td>
</tr>
<tr>
<td>BCE</td>
<td>D11-134 Internal work for BCE client with duration 3 months</td>
<td>1</td>
<td>Low</td>
<td></td>
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Comment counting

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**Dates**
- Created: 25/Oct/17 5:46 PM
Comment counting (JS)

```javascript
[jira.customfield_commentsbyuser]
name = "Comments by user"
data_type = "integer"
measure = true
multiple_dimensions = ["Time","Assignee"]
javascript_code = '"
var comarr = new Array();
var allcomments = issue.fields.comment;
if (allcomments && allcomments.comments ) {
    var comments = issue.fields.comment.comments;
    for (var i = 0; i < comments.length; i++) {
        var comment = comments[i];
        if (comment.author) {
            comarr.push(comment.created.toString().substring(0,10) + "," + comment.author.key + ",1");
        } else {
            comarr.push(comment.created.toString().substring(0,10) + "," + "unassigned" + ",1");
        }
    }
    issue.fields.customfield_commentsbyuser = comarr.join("\n");
}
'"
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    for (var i = 0; i < comments.length; i++) {
        var comment = comments[i];
        if (comment.author) {
            comarr.push(comment.created.toString().substr(0,10) + "," + comment.author.key+ ",1");
        } else {
            comarr.push(comment.created.toString().substr(0,10) + "," +"(unassigned)"+ ",1");
        }
    }

    issue.fields.customfield_commentsbyuser = comarr.join("\n");
}
```

Comment counting (JS)

```javascript
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if (allcomments && allcomments.comments) {
    var comments = allcomments.comments;
    for (var i = 0; i < comments.length; i++) {
        var comment = comments[i];
        if (comment.author) {
            comarr.push(comment.created.toString().substr(0,10) + "," + comment.author.key + ",1");
        } else {
            comarr.push(comment.created.toString().substr(0,10) + "," +(unassigned)+ ",1");
        }
    }

    issue.fields.customfield_commentsbyuser = comarr.join("\n");
}"
```
Comment counting (JS)

```javascript
[jira.customfield_commentsbyuser]
name = "Comments by user"
data_type = "integer"
measure = true
multiple_dimensions = ["Time","Assignee"]
javascript_code = '"
var comarr = new Array();
var allcomments = issue.fields.comment;
if (allcomments && allcomments.comments) {
  var comments = issue.fields.comment.comments;
  for (var i = 0; i < comments.length; i++) {
    var comment = comments[i];
    if (comment.author) {
      comarr.push(comment.created.toString().substr(0,10)+ "," + comment.author.key + ",1");
    } else {
      comarr.push(comment.created.toString().substr(0,10)+ "," + "(unassigned)" + ",1");
    }
  }
  issue.fields.customfield_commentsbyuser = comarr.join("\n");
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# Comment counting

<table>
<thead>
<tr>
<th>Assignee</th>
<th>+Q1 2022</th>
<th>+Q2 2022</th>
<th>+Q3 2022</th>
<th>+Q4 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>(unassigned)</td>
<td>177</td>
<td>180</td>
<td>107</td>
<td></td>
</tr>
<tr>
<td>Anna Linda</td>
<td>28</td>
<td>82</td>
<td>65</td>
<td>18</td>
</tr>
<tr>
<td>Duncan (Big) Snow</td>
<td>35</td>
<td>72</td>
<td>63</td>
<td>16</td>
</tr>
<tr>
<td>JDG REST Admin</td>
<td>37</td>
<td>139</td>
<td>176</td>
<td>76</td>
</tr>
<tr>
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<td>26</td>
<td>82</td>
<td>78</td>
<td>20</td>
</tr>
<tr>
<td>Nauris Malitis (admin)</td>
<td>662</td>
<td>686</td>
<td>526</td>
<td>20</td>
</tr>
<tr>
<td>Patrick Lewis</td>
<td>26</td>
<td>75</td>
<td>67</td>
<td>22</td>
</tr>
<tr>
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Takeaways

• Please, take care of your data in Jira

• Use the Tools that you have in eazyBI to transform data:
  • Calculated Measures
  • JavaScript calculated custom fields

• Have fun finding useful data insights!
Thank you!
eazybi.com
Questions?

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support@eazybi.com