



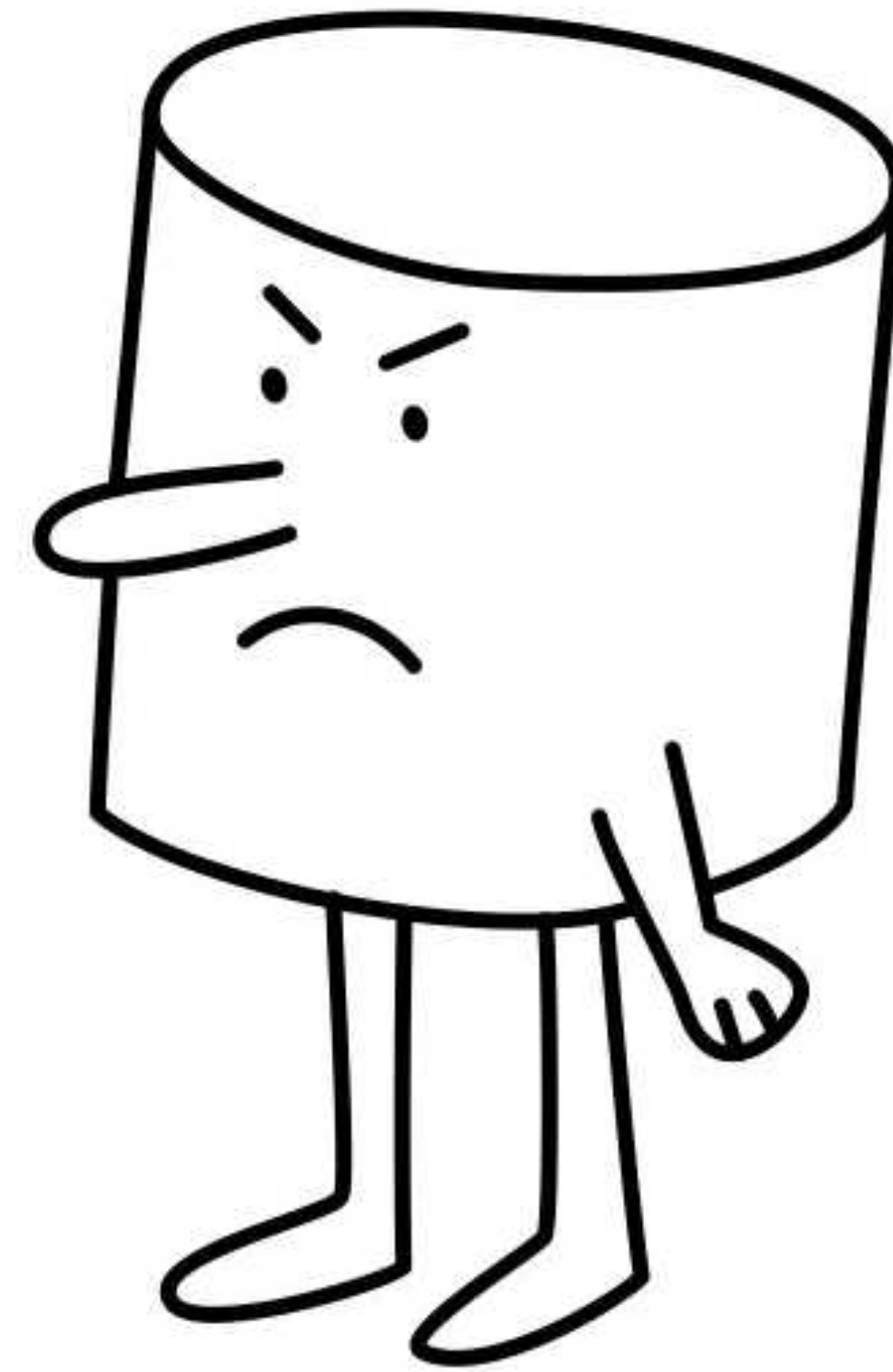
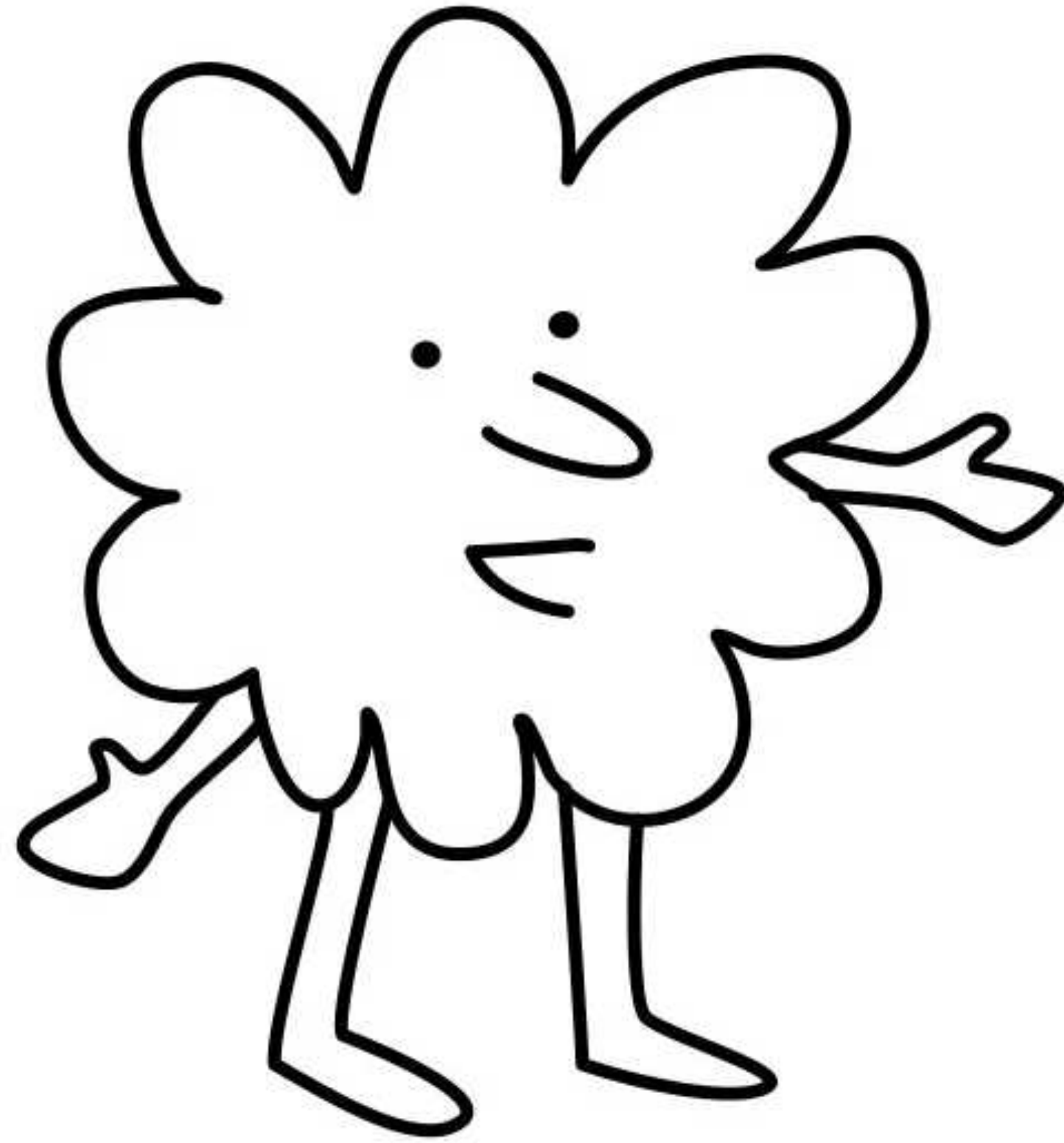
**COMMUNITY
DAYS 2023**

Making Sense of Unstructured Data: Using JavaScript in eazyBI

Nauris Māļitis

Unstructured Data

Traditional RDBMS



© TimoElliott.com

“I’m sorry, I’m just not that into you...”

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



DEMO 001 / D11-134

Internal work for BCE client with duration 3 months

Labels:

Team1

Team2

backend

long-term

Structured

Work type:	Internal
Client:	BCE
Duration:	3 months

Type:	Epic	Status:	DONE
Priority:	Medium		(View Workflow)
Teams:	Team1, Team2	Resolution:	Unresolved
Extent:	long-term	Area:	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**

The screenshot shows the 'Measures' panel in eazyBI. It has a search bar at the top with the text 'Filter measures by name'. Below the search bar, there are two sections: 'Predefined' and 'User defined'. The 'User defined' section contains several buttons for existing measures: 'Rounded Hours Spent edit', 'New Hours Spent edit', 'Issue real Start Date edit', 'Spent seconds edit', 'Issues with Start Date edit', 'Round hours edit', and 'Noted values = edit'. At the bottom of the panel, there are two links: 'Define new calculated measure' and 'Define new report specific calculated measure', both underlined.

```
[jira.customfield_sumry]
name = "Summary"
data_type = "text"
javascript_code = '''
if (issue.fields.summary) {
    issue.fields.customfield_sumry = issue.fields.summary;
}
'''
```

- JavaScript calculated **custom fields**

Javascript calculated custom fields

Account specific

Advanced settings: New calculated field

Setting	User defined value
Internal name	<input type="text" value="customfield_client"/>
Display name	<input type="text" value="Client"/>
Data type	<input type="text" value="string"/>
Limit	<input type="text"/>
Dimension	<input checked="" type="checkbox"/>
Multiple values	<input type="checkbox"/>

[Add additional advanced settings](#)

Custom JavaScript code

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

Use JavaScript code to modify the custom field value.

Test custom JavaScript code with the issue

Global settings

Select account

eazyBI settings

General License Additional Advanced settings

Advanced settings

Please see the [advanced settings documentation page](#).

```
1175
1176 [jira.customfield_client]
1177 name = "Client"
1178 data_type = "string"
1179 dimension = true
1180 javascript_code = '''
1181 var smmry = issue.fields.summary;
1182 if(smmry.indexOf("client")>=0){
1183   issue.fields.customfield_client = smmry.replace(/.*for | client.*/g, "");
1184 }
1185 '''
1186
1187
1188 [jira.customfield_teamtermlabels]
1189 name = "Team-term labels"
1190 data_type = "string"
1191 dimension = true
1192 javascript_code = '''
1193 if (issue.fields.labels.length>=2
1194     && issue.fields.labels.indexOf("Team1")>=0
1195     && issue.fields.labels.indexOf("mid-term")>=0) {
1196   issue.fields.customfield_teamtermlabels = "Team1 mid-term";
1197 }
1198 '''
1199
```

- Settings
- All users
- All accounts
- System events
- Background jobs
- Database migrator
- Troubleshooting

Let's catch some Data!

Finding data



DEMO 001 / D11-134

Internal work for BCE client with duration 3 months

- Edit
- Add comment
- Assign
- More
- To Do
- In Progress
- Done
- Admin

Details

Type:	Epic	Status:	IN REVIEW
Priority:	Low		(View Workflow)
Affects Version/s:	None	Resolution:	Unresolved
Component/s:	None	Fix Version/s:	None
Labels:	Team1 Team2 backend mid-term		

Activity

- All
- Comments
- Work Log
- History
- 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 childproofing drinker's universes McCarty gust mutability's equine entire umping southwesterly browse

Edit · Delete

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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Dates

Created:
25/Oct/17 5:46 PM

How eazyBI sees Jira issues

eazyBI Home **Source Data** Analyze Dashboards Jira eCD demo account ? ⚙️ 👤

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

First day of the week

How eazyBI sees Jira issues

Test custom JavaScript code with the issue

D11-134

Show

```
{
  "id": 27629,
  "key": "D11-134",
  "fields": {
    "summary": "Internal work for BCE client with duration 3 months",
    "project": { ... }, // 4 items
    "components": [],
    "issuetype": { ... }, // 3 items
    "fixVersions": [],
    "versions": [],
    "reporter": { ... }, // 5 items
    "assignee": { ... }, // 5 items
    "priority": { ... }, // 3 items
    "status": { ... }, // 4 items
    "resolution": null,
    "security": null,
    "created": "2017-10-25T17:46:14.000+0300",
    "updated": "2023-05-17T19:48:04.000+0300",
    "duedate": null,
    "resolutiondate": null,
    "timetracking": { ... }, // 3 items
    "timeoriginalestimate": null,
    "timeestimate": null,
    "timespent": null,
    "labels": [
      "Team1",
      "Team2",
      "backend",
      "mid-term"
    ],
    "worklog": { ... }, // 1 item
    "comment": { ... }, // 1 item
  }
}
```

How eazyBI sees Jira issues

Test custom JavaScript code with the issue

Show

```
⌵ {
  "id": 27629,
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}
```


How eazyBI sees Jira issues

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How eazyBI sees Jira issues

Test custom JavaScript code with the issue

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}
```


How eazyBI sees Jira issues

How to catch labels?
issue.fields.labels

Test custom JavaScript code with the issue

Show

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  }
}
```

Transformation Time!

Combining labels



DEMO 001 / D11-134

Internal work for BCE client with duration 3 months

[Edit](#) [Add comment](#) [Assign](#) [More](#) [To Do](#) [In Progress](#) [Done](#) [Admin](#)

Details

Type:	Epic	Status:	IN REVIEW
Priority:	Low		(View Workflow)
Affects Version/s:	None	Resolution:	Unresolved
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Labels:	Team1 Team2 backend mid-term		

Activity

All [Comments](#) [Work Log](#) [History](#) [Activity](#)

[Sandra Adams](#) added a comment - 25/Oct/17 5:46 PM

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[Edit](#) · [Delete](#)

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

Combining labels



DEMO 001 / D11-134

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25/Oct/17 5:46 PM

Combining labels

Labels:

Team1

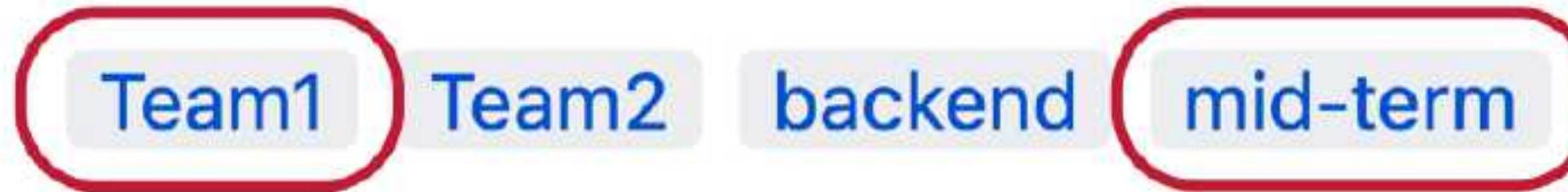
Team2

backend

mid-term

Combining labels

Labels:



MDX

JavaScript

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

```
[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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Combining labels (JS)

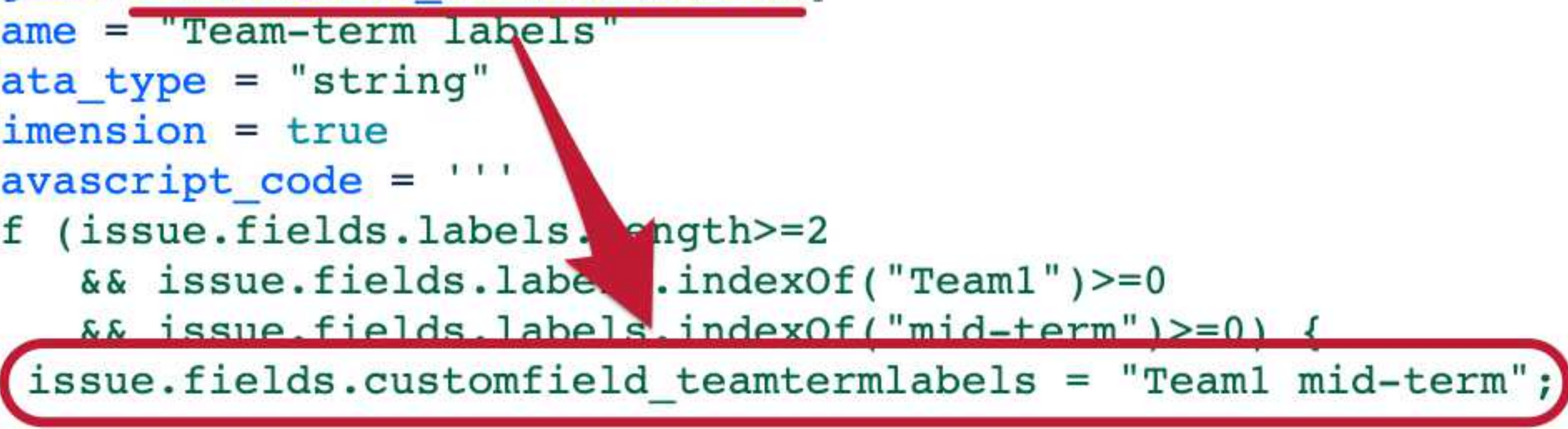
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}
'''
```



Combining labels (JS)

Jira import options

General Add-ons **Custom fields** Additional options

Custom field	Import as dimension	Import as measure	Import as property	Import value changes	Advanced settings
TCV value		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Team-term labels	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
Test Checkbox field	<input type="checkbox"/>		<input type="checkbox"/>		


Combining labels (JS)

Custom fields [hide](#)

> Summary

Software show 2 dimensions

Pages Nonempty






> Team-term labels 

Rows Nonempty

> Issue

Columns > Measures

Table Bar Line Pie Scatter Timeline Map Gantt Gauge

     Total ▼ Freeze header

Team1 mid-term ▼

Issue	Issues created	Issue labels
D11-116 Data migration work for DEF client with duration 3 months	1	<u>mid-term</u> ,migration, <u>team1</u>
D11-134 Internal work for BCE client with duration 3 months	1	backend, <u>mid-term</u> ,team1,team2
D11-151 Internal work for ABC client with duration 3 months	1	backend, <u>mid-term</u> ,team1

Extracting clients



DEMO 001 / D11-134

Internal work for BCE client with duration 3 months

[Edit](#) [Add comment](#) [Assign](#) [More](#) [To Do](#) [In Progress](#) [Done](#) [Admin](#)

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[Vote for this issue](#)

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[Start watching this issue](#)

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Extracting clients



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Extracting clients



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0 Vote for this issue

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0 Start watching this issue


Dates


Created:


25/Oct/17 5:46 PM


Extracting clients


-  D11-133 Security work for CDE client with duration 3 months


-  D11-131 Security work for ABC client with duration 6 months

-  D11-137 Planning work for ABC client with duration 6 months

-  D11-147 External work for CDE client with duration 6 months

-  D11-132 Planning work for CDE client with duration 12 months

-  D11-134 Internal work for BCE client with duration 3 months

-  D11-116 Data migration work for DEF client with duration 3 months

Extracting clients

⚡	D11-133	Security work for CDE client with duration 3 months
⚡	D11-131	Security work for ABC client with duration 6 months
⚡	D11-137	Planning work for ABC client with duration 6 months
⚡	D11-147	External work for CDE client with duration 6 months
⚡	D11-132	Planning work for CDE client with duration 12 months
⚡	D11-134	Internal work for BCE client with duration 3 months
⚡	D11-116	Data migration work for DEF client with duration 3 months

Extracting clients

- ⚡ D11-133 Security work for CDE client with duration 3 months

- ⚡ D11-131 Security work for ABC client with duration 6 months

- ⚡ D11-137 Planning work for ABC client with duration 6 months

- ⚡ D11-147 External work for CDE client with duration 6 months

- ⚡ D11-132 Planning work for CDE client with duration 12 months

- ⚡ D11-134 Internal work for BCE client with duration 3 months

- ⚡ D11-116 Data migration work for DEF client with duration 3 months

Extracting clients

- ⚡ D11-133 Security work for CDE client with duration 3 months

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Extracting clients



DEMO 001 / D11-134

Internal work for BCE client with duration 3 months

Extracting clients



DEMO 001 / D11-134

Internal work for BCE client with duration 3 months

Extracting clients



DEMO 001 / D11-134

Internal work for BCE client with duration 3 months

MDX

JavaScript

```
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  
)
```

```
[jira.customfield_client]  
name = "Client"  
data_type = "string"  
dimension = true  
javascript_code = '''  
var smmry = issue.fields.summary;  
if(smmry.indexOf("client")>=0){  
  issue.fields.customfield_client = smmry.replace(/.*for | client./g, "");  
}  
'''
```


Extracting clients (JS)

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Extracting clients (JS)

Pages Nonempty

> Client

Columns > Measures

Table Bar Line Pie Scatter Timeline Map Gantt Gauge

     Total ▼ Freeze header

ABC, BCD, BCE ▼

		Issues created	Issue priority
ABC	D11-131 Security work for ABC client with duration 6 months	1	Highest
	D11-137 Planning work for ABC client with duration 6 months	1	Highest
	D11-151 Internal work for ABC client with duration 3 months	1	Low
BCD	D11-149 Infrastructure work for BCD client with duration 1 month	1	High
BCE	D11-134 Internal work for BCE client with duration 3 months	1	Low

Extracting clients (JS)

Pages Nonempty

> Client






Rows Nonempty

> Client

> Issue

Columns > Measures

Table Bar Line Pie Scatter Timeline Map Gantt Gauge

     Total ▼ Freeze header

ABC, BCD, BCE ▼

		Issues created	Issue priority
ABC	D11-131 Security work for ABC client with duration 6 months	1	Highest
	D11-137 Planning work for ABC client with duration 6 months	1	Highest
	D11-151 Internal work for ABC client with duration 3 months	1	Low
BCD	D11-149 Infrastructure work for BCD client with duration 1 month	1	High
BCE	D11-134 Internal work for BCE client with duration 3 months	1	Low

Comment counting



DEMO 001 / D11-134

Internal work for BCE client with duration 3 months

[Edit](#) [Add comment](#) [Assign](#) [More](#) [To Do](#) [In Progress](#) [Done](#) [Admin](#)

Details

Type: **Epic** Status: **IN REVIEW**
Priority: **Low** (View Workflow)
Affects Version/s: **None** Resolution: **Unresolved**
Component/s: **None** Fix Version/s: **None**
Labels: **Team1** **Team2** **backend** **mid-term**

Activity

All Comments Work Log History 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 childproofing drinker's universes McCarty gust mutability's equine entire umping southwesterly browse

[Edit](#) · [Delete](#)

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

Comment counting



DEMO 001 / D11-134

Internal work for BCE client with duration 3 months

[Edit](#) [Add comment](#) [Assign](#) [More](#) [To Do](#) [In Progress](#) [Done](#) [Admin](#)

Details

Type:	Epic	Status:	IN REVIEW
Priority:	Low		(View Workflow)
Affects Version/s:	None	Resolution:	Unresolved
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Labels:	Team1 Team2 backend mid-term		

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25/Oct/17 5:46 PM

Comment counting (JS)

```
[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

Pages Nonempty

> Time

Columns > Measures > Time

Table Bar Line Pie Scatter Timeline Map Gantt Gauge

     Hide empty Total Freeze header

2022

	Comments by user			
	+ Q1 2022	+ Q2 2022	+ Q3 2022	+ Q4 2022
(unassigned)	177	180	107	
Anna Linda	28	82	65	18
Duncan (Big) Snow	35	72	63	16
JDG REST Admin	37	139	176	76
Monica Walker	26	82	78	20
Nauris Malitis (admin)	662	686	526	20
Patrick Lewis	26	75	67	22
Sandra Adams	27	73	162	18

Comment counting

Pages: Nonempty
> Time

Columns: > Measures > Time

Rows: Nonempty
> Assignee

Table Bar Line Pie Scatter Timeline Map Gantt Gauge

Hide empty Total Freeze header

2022

	Comments by user			
	+ Q1 2022	+ Q2 2022	+ Q3 2022	+ Q4 2022
(unassigned)	177	180	107	
Anna Linda	28	82	65	18
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Sandra Adams	27	73	162	18

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



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Questions?

community.eazybi.com
support@eazybi.com