

# eCD 2023 Training

## Main goals:

1. Remainder/try report features that allow avoiding creating calculations.
2. Understand what calculation is needed depending on the question and train to write some.
3. Feel free to explore a feature you are interested in or even apply to your own reports, and then come back - we will try to follow the script. Ask help to support!

## Let's create a report.

Overview by resolved issues per each month with logged/estimated hours

1. Report with Time in rows, filter Projects. Measures "Issues resolved", "Hours spent", "Original estimated hours" in columns (use **Search** in measures)
  - a. Check in the **documentation** by what date each measure is counted to time: [Jira Core measures and dimensions](#)
  - b. **Drill through issues** and notice the measures are not related to each other.
2. Draw a trendline of resolved issues and cumulative logged hours: use **Standard calculations**: [Create reports](#)
3. In a report chart:
  - a. Use **separate axis** option in the chart: [Customize chart](#)
  - b. **Conditional chart formatting** "top/bottom" option for resolved: [Charts conditional formatting](#)
  - c. **Save** report
4. Back to the table: remove trendline and cumulative. Add measure "Days in transition status"
  - a. temporary add Page filter by "Resolution", select "Done" and understand why values disappear for historical measure: [Import issue](#)  
[e change history](#)
  - b. **drill into dimension** "Transition status" from this measure: [Create reports](#)
  - c. **Conditional cell formatting** "Heatmap" option for this measure: [Conditional cell formatting](#)
  - d. **Save as** report

## eazy MDX - when you want to refine your report

1. We will use the first report (Time in rows, "Hours spent" and "Issues resolved" in columns, Time and Project in Pages), remove the trendline and cumulative.
2. If I want all logged hours (whenever they were logged) for resolved issues only....
  - a. **Import time tracking measures** and use "Hours spent resolved" [Time tracking measures](#)
3. If I want hours logged during this month, but only for resolved issues...
  - a. use **Resolution** dimension
  - b. create a **calculated measure** with a **tuple** from Hours spent and this Resolution member: [Tuple](#)

```
1 (
2   [Measures].[Hours spent],
3   [Resolution].[Done]
4 )
```

4. Hours spent only for parent issues (no subtasks) and only highest priorities
  - a. Find Issue type by Type **hierarchy**

- b. Create **calculated member** “High importance” in the Priority dimension to **aggregate** the two highest priorities: [Calculated members in other dimensions](#)

```
1 Aggregate(  
2 -- notice set {}  
3   {[Priority].[Highest],  
4   [Priority].[High]}  
5 )
```

- c. or

```
1 Aggregate(  
2   Filter(  
3 --filter only Priority level members  
4   [Priority].[Priority].Members,  
5   [Priority].CurrentMember.Name MATCHES "High.*"  
6   )  
7 )
```

- d. Calculated measure “Logged hours for high importance done parent issues” with a **tuple**

```
1 (  
2 -- measure  
3 [Measures].[Hours spent],  
4 -- imported member  
5 [Resolution].[Done],  
6 -- imported member from specified hierarchy  
7 [Issue Type.By type].[Standard],  
8 --calculated member  
9 [Priority].[High importance]  
10 )
```

5. % of Hours spent in this month against the year

- a. Use **Add calculated**: % of total - it calculates % for each row from visible rows

6. % of Hours spent for high-importance done parent issues against all logged hours per month

- a. create calculated measure with division “% : **CASE statement** to avoid dividing by zero

```
1 CASE WHEN  
2 --executed division only when there is a value  
3 [Measures].[Hours spent]>0  
4 THEN  
5 -- arithmetical division between calculated measure and predefined measure  
6 [Measures].[Logged hours for high importance done parent issues]  
7 /  
8 [Measures].[Hours spent]  
9 END
```

7. Find months with actual hours more than estimated

- a. **Conditional cell formatting with a custom calculation**: [Conditional cell formatting](#)

- b. For the calculation formula, use **comparable measures** that reflect the **report context** (time) in the same way: “Hours spent resolved” and “Original estimated hours resolved.”

```
1 [Measures].[Original estimated hours resolved] -  
2 [Measures].[Hours spent resolved]
```

**Cell formatting for:** Hours spent resolved Custom formula

```

1 [Measures].[Original estimated hours resolved] -
2 [Measures].[Hours spent resolved]

```

Range Exact value Regular expression Top/Bottom Heatmap

	Min	Max	Text	Background	Bold	Sample	
:		-0.01	Default		<input type="checkbox"/>	123.45	Delete
:	0		Default		<input type="checkbox"/>	123.45	Delete

[Add new rule](#)

Specify ranges of values that should have different formatting. The first matching rule will be used (you can reorder rules with drag-and-drop). Leave the condition empty to specify default formatting.

Apply to all row cells

[Apply](#) [Clear all](#) [cancel](#)

8. Count resolved **issues** for each month that are underestimated

a. there is more than one **measure** that must be all applied on the issue level → iterate through issues with **Descendants** or

DescendantsSet:  [Descendants](#)

b. Option with **Count()** (use NonZero() to avoid 0 instead of empty values):  [Count](#)

```

1 NonZero(Count(
2   Filter(
3     --iterate through issues
4     Descendants([Issue].CurrentMember, [Issue].[Issue]),
5     --filter by resolution date
6     DateInPeriod(
7       [Issue].CurrentMember.get('Resolved at'),
8       [Time].CurrentHierarchyMember
9     )
10    AND
11    --underestimated only
12    [Measures].[Original estimated hours resolved] - [Measures].[Hours spent resolved]<0
13  )
14 ))

```

c. Option with **Sum()**:  [Sum](#)

```

1 Sum(
2   -- set expression
3   Filter(
4     Descendants([Issue].CurrentMember, [Issue].[Issue]),
5     DateInPeriod(
6       [Issue].CurrentMember.get('Resolved at'),
7       [Time].CurrentHierarchyMember
8     )),

```

```
9  -- numerical expression
10 CASE WHEN
11  --only when underestimated
12  [Measures].[Original estimated hours resolved] - [Measures].[Hours spent resolved]<0
13 THEN
14  --then count
15  [Measures].[Issues resolved]
16 END
17 )
18 )
```

d. Use integer formatting!