

Help, My Reports Are Too Slow!



Query execution timeout of 60 seconds reached. Please try to make query simpler. Close

On the road of increase query timeout



Error



There was error when performing your request. Please retry or go to other page.

Close

Error

①

Child process request failed with Net::ReadTimeout:
The child process will be restarted now, please retry the request in a minute.

Close

Error



Child process request failed with ChildProcess::MemoryOutError:

Close

Error



Failed to execute query. Error message:
OutOfMemory used=646081368, max=716177408

Close

eazyBl Community Days May 6, 2021

What to look for

Best practices for reports

Calculation performance

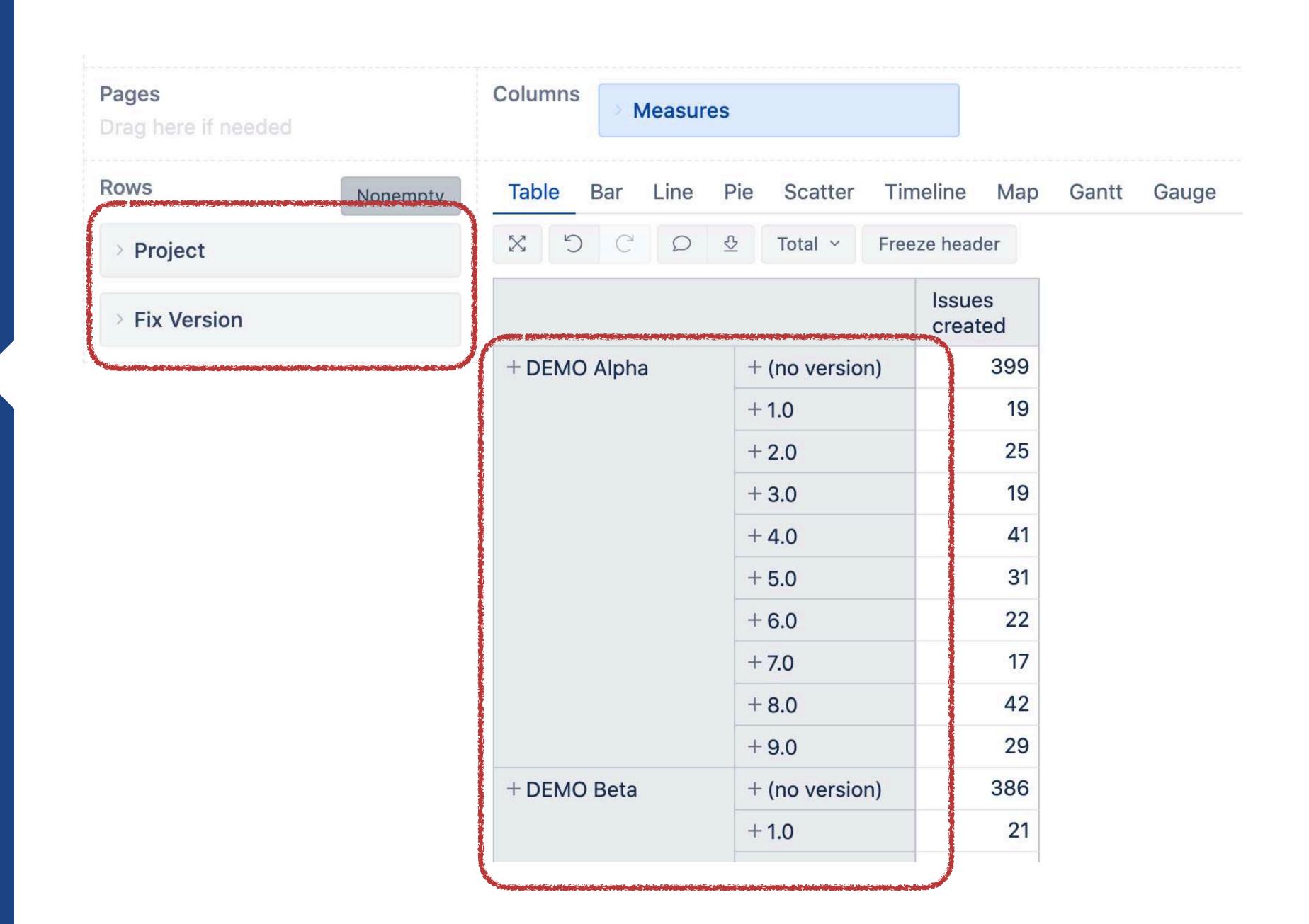
If it is not enough



Dimension combinations on Rows

Large dimensions

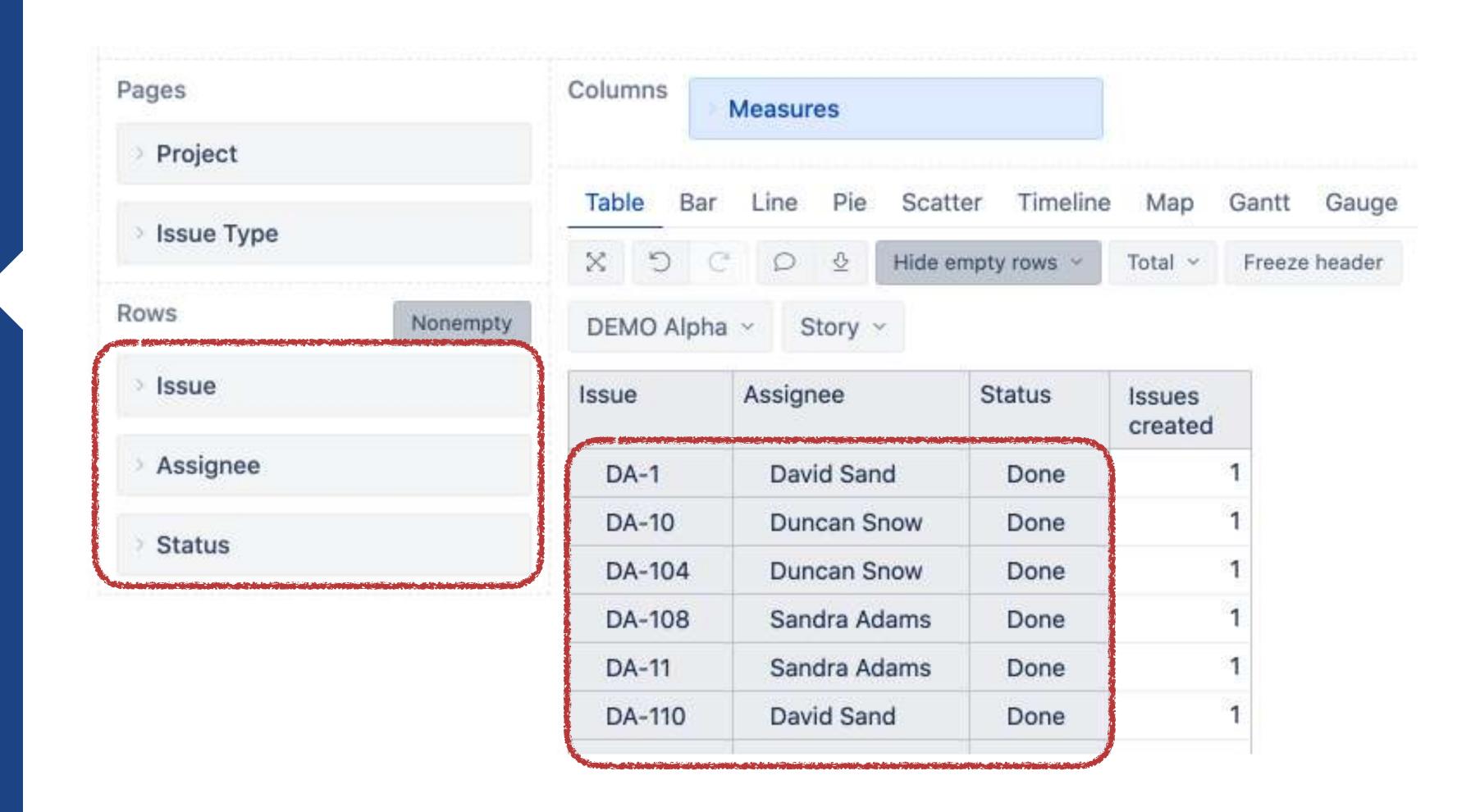
Multiple selections on Pages



Dimension combinations on Rows

Large dimensions

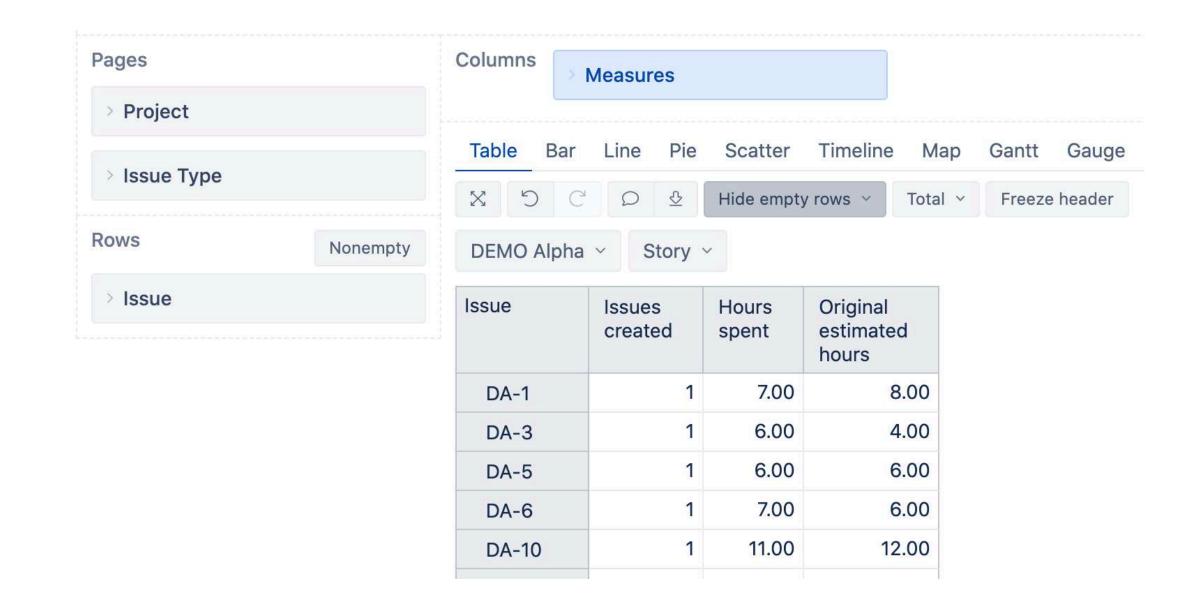
Multiple selections on Pages

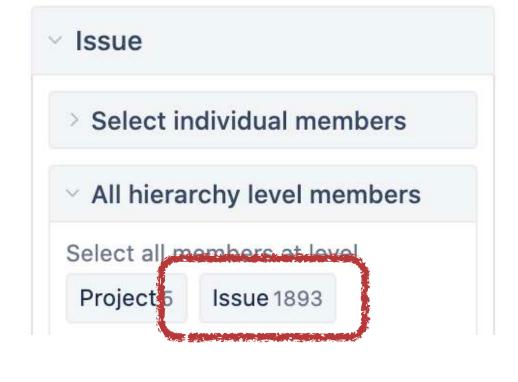


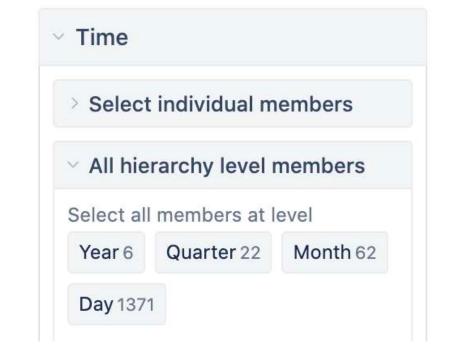
Dimension combinations on Rows

Large dimensions

Multiple selections on Pages





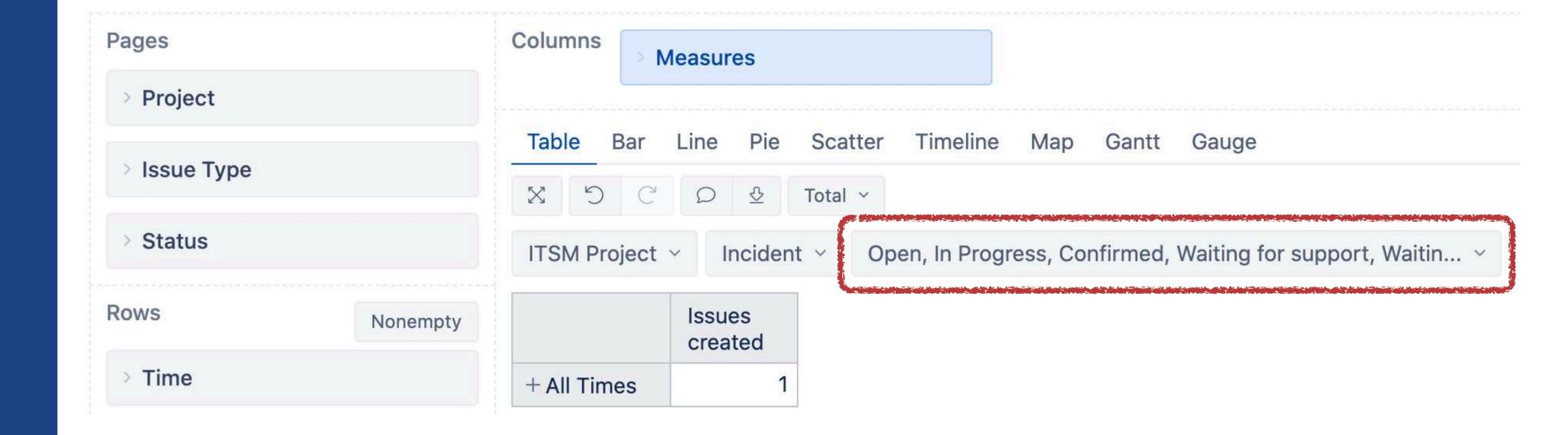




Dimension combinations on Rows

Large

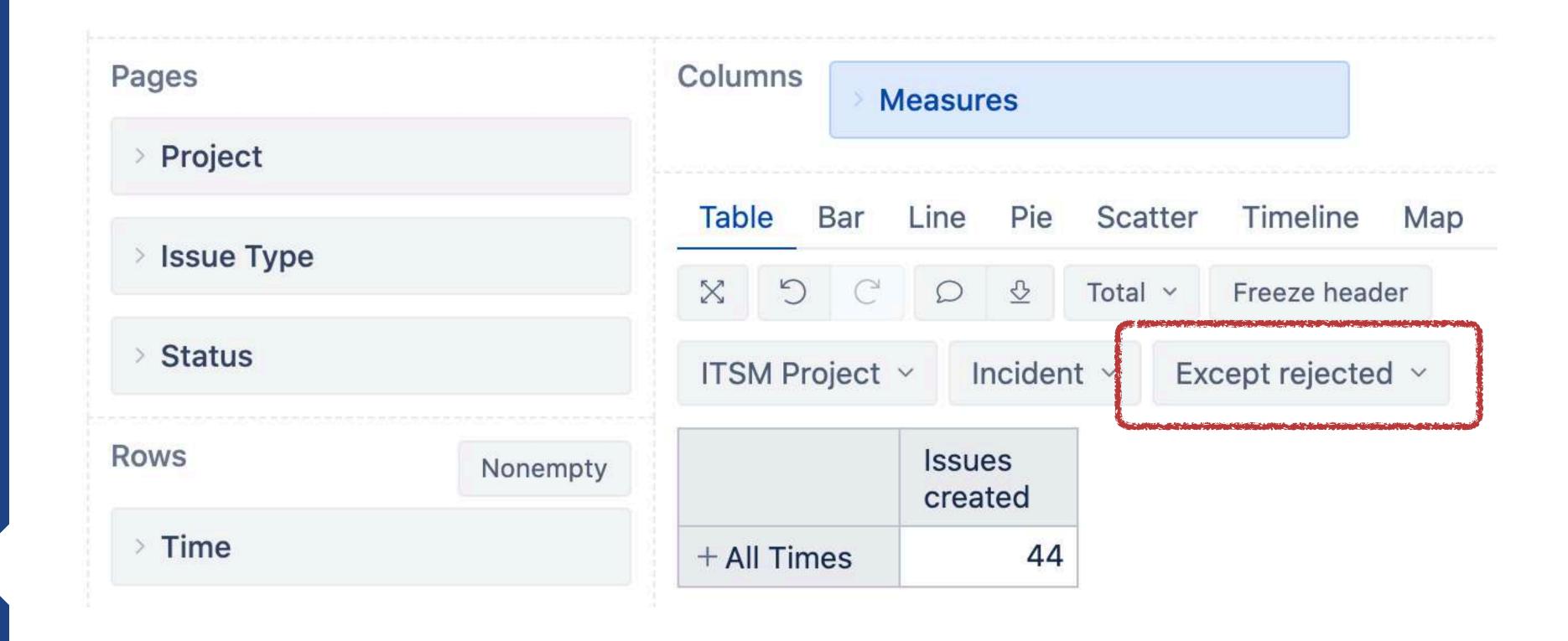
Multiple selections on Pages



Dimension combinations on Rows

Large dimensions

Multiple selections on Pages



Dimension combinations on Rows

Large dimensions

Multiple selections on Pages

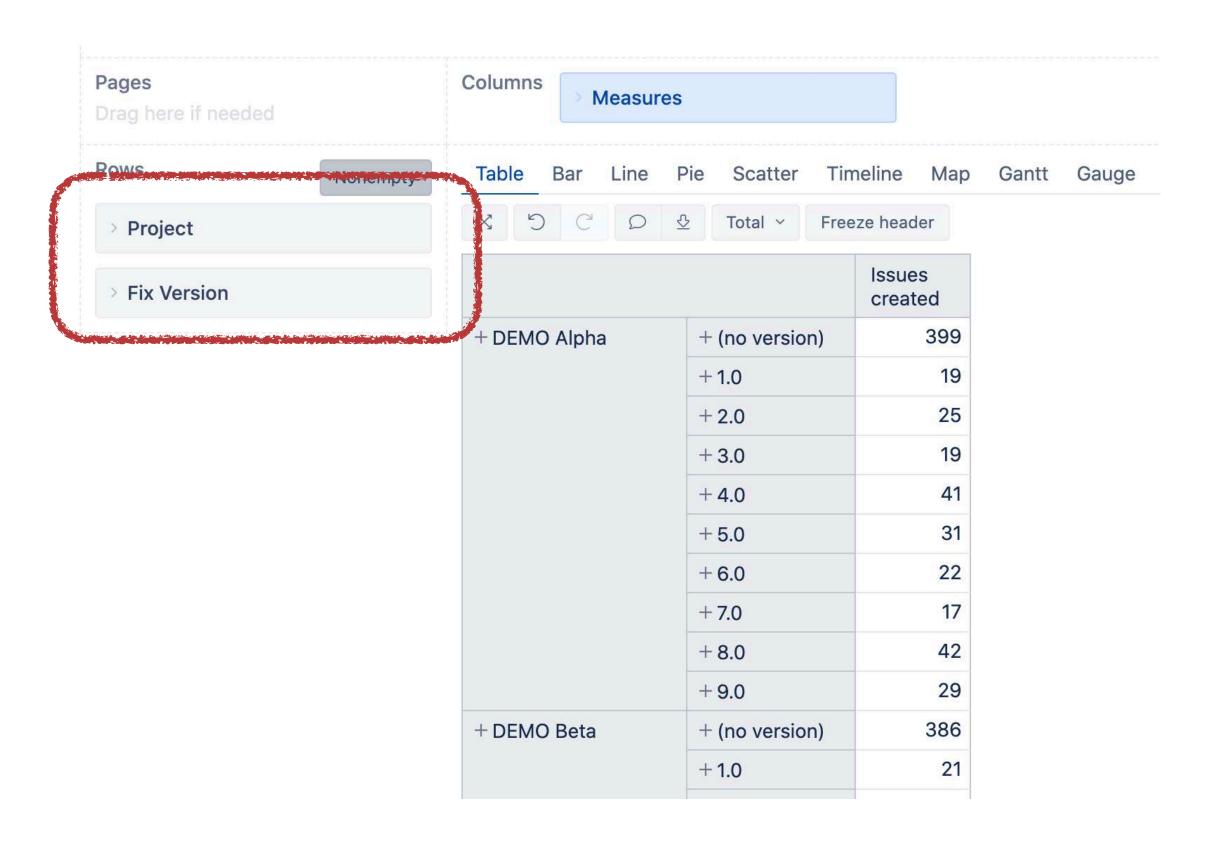
Calculations

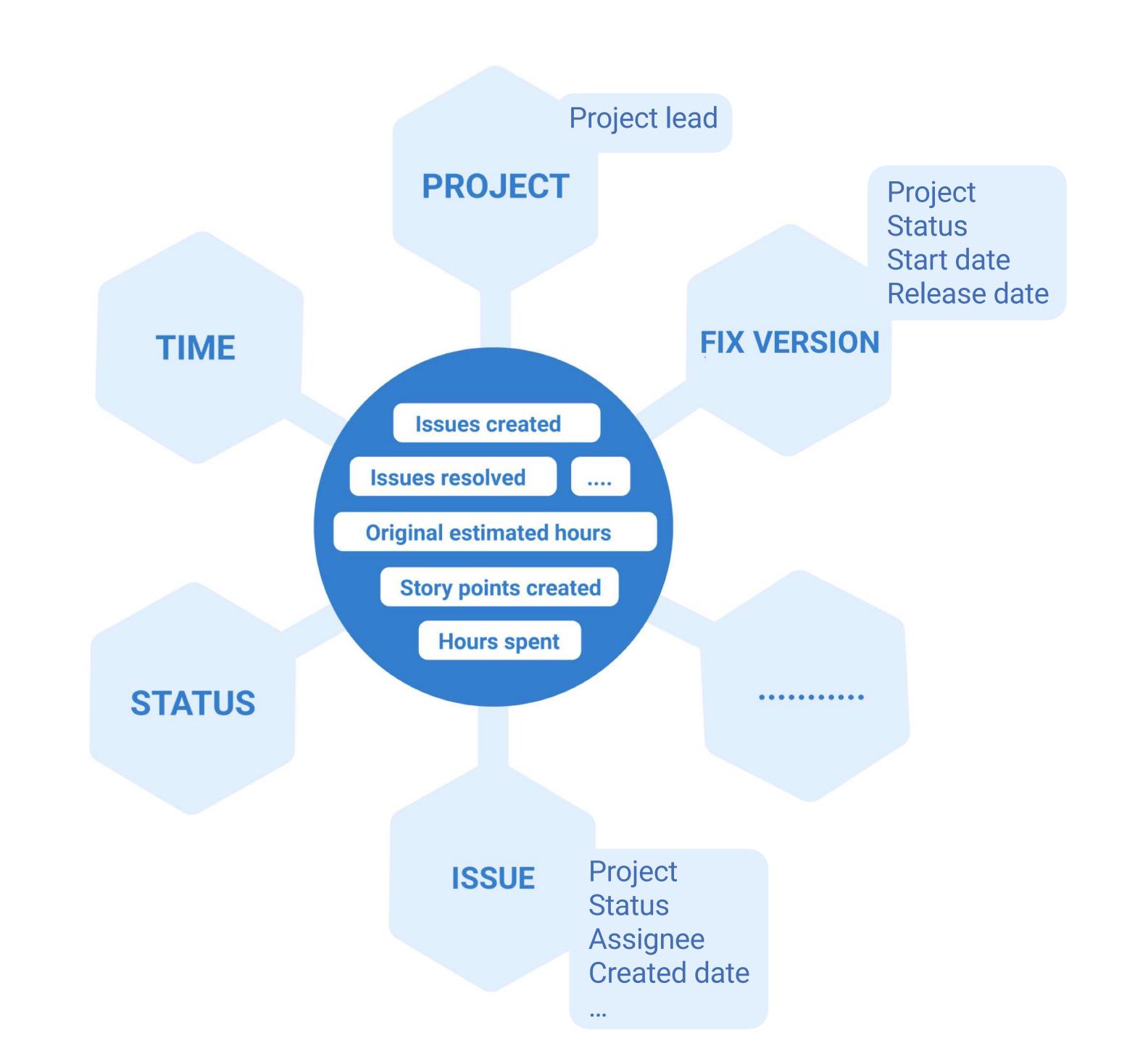
Calculations on sets large dimensions

```
Count(Filter(
   Descendants([Issue].CurrentMember,[Issue].
[Issue]),
   [Measures].[Issue status] <> "Done"
   AND
   [Measures].[Issues created] > 0
))
```

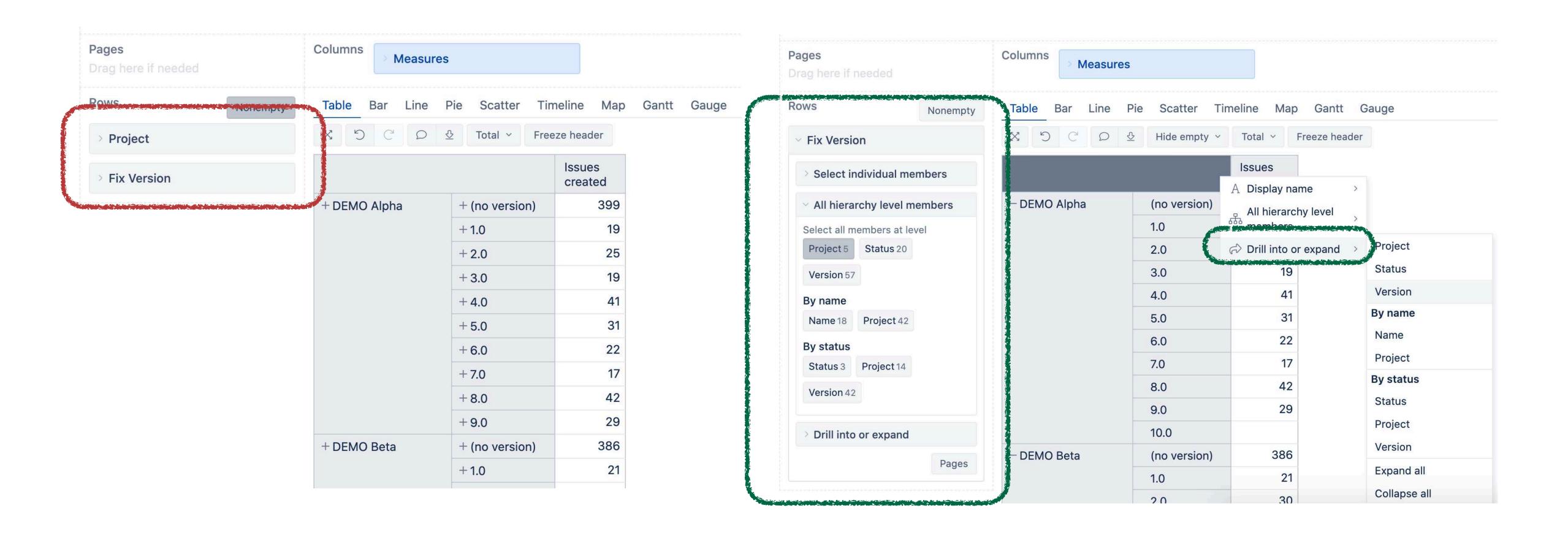
Best practices for reports

Several dimensions on Rows

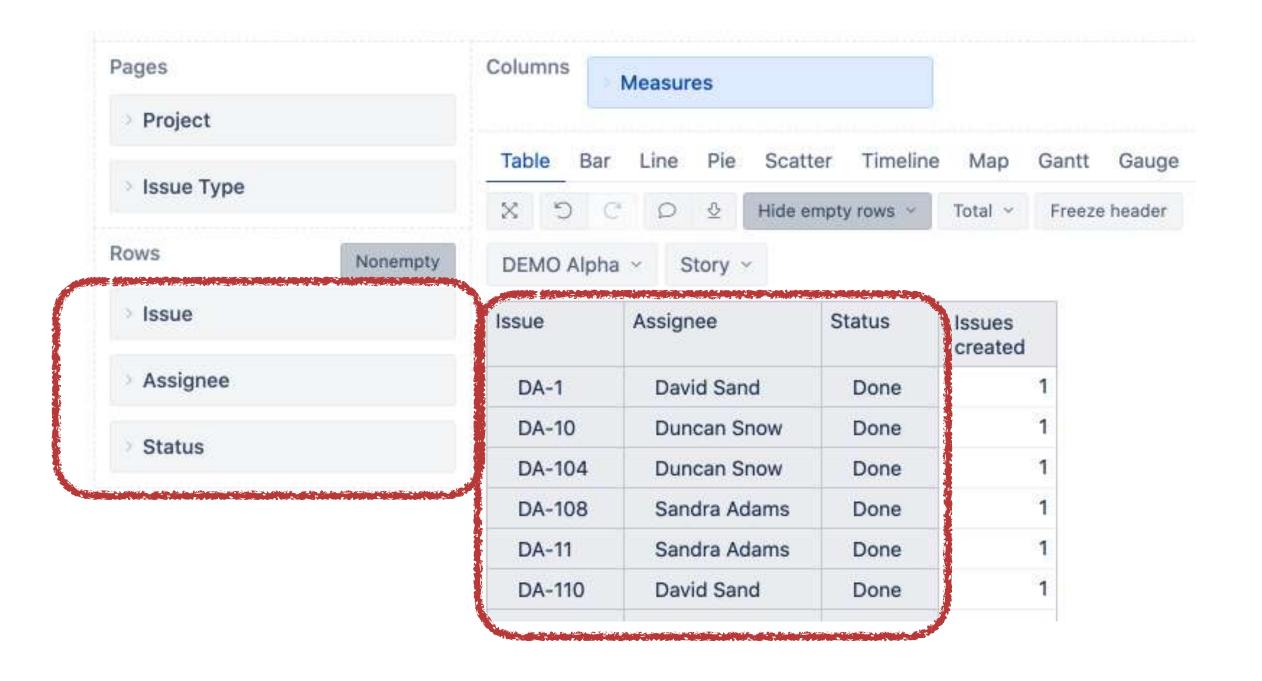


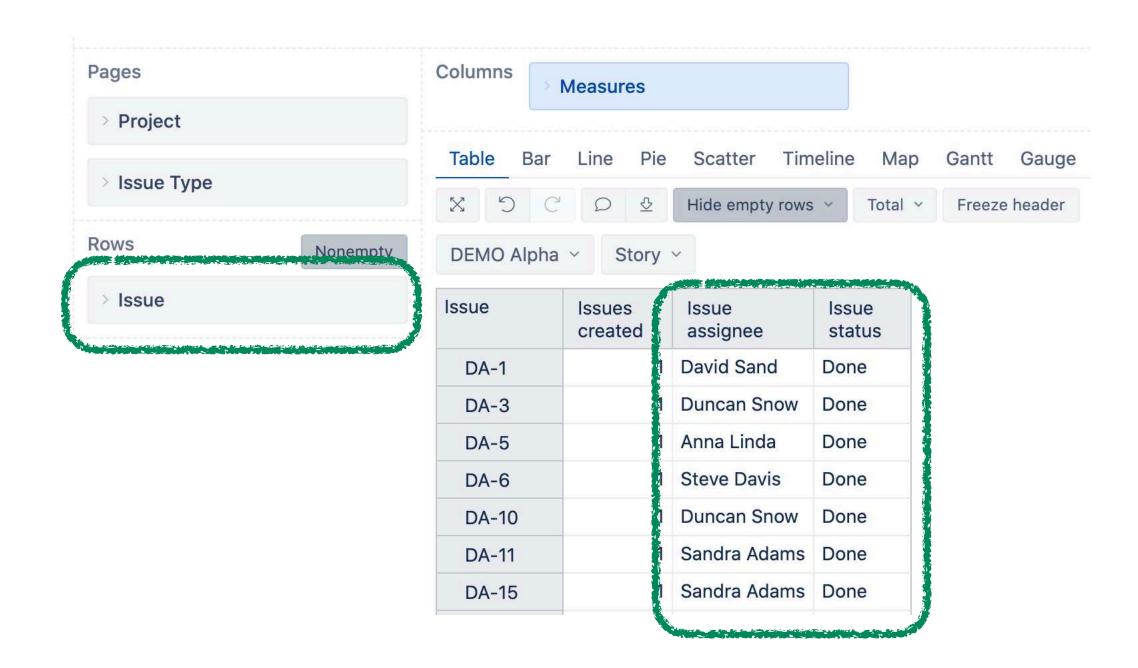


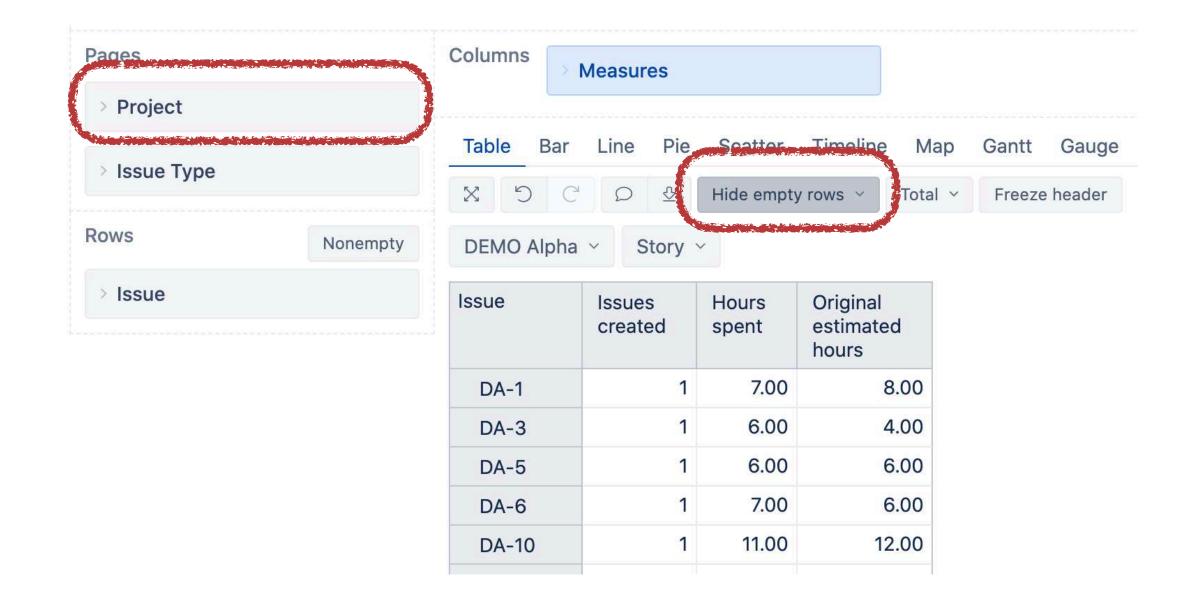
Several dimensions on Rows

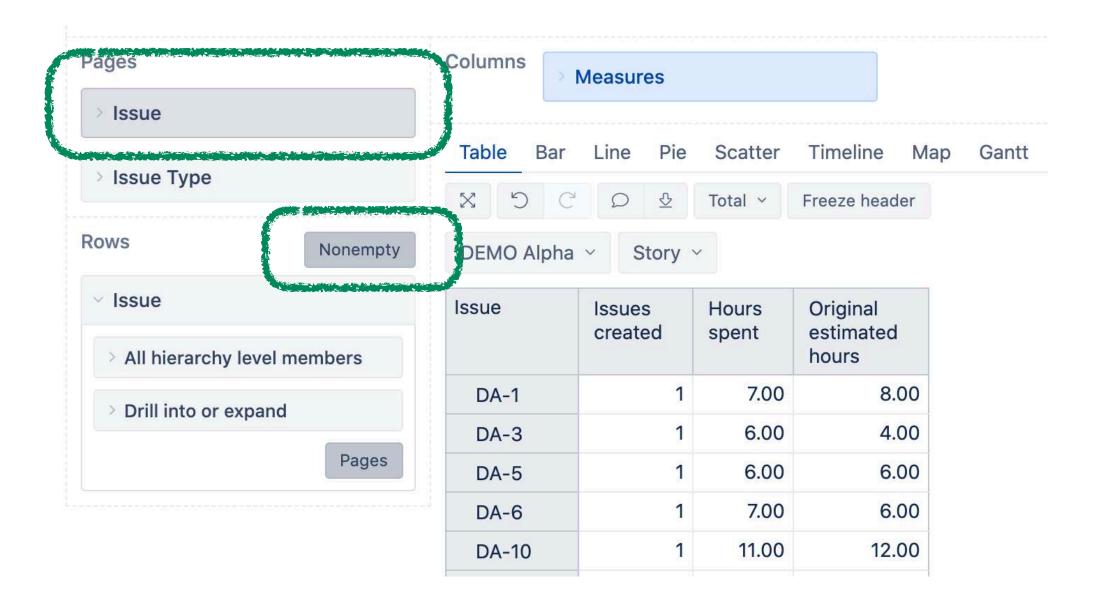


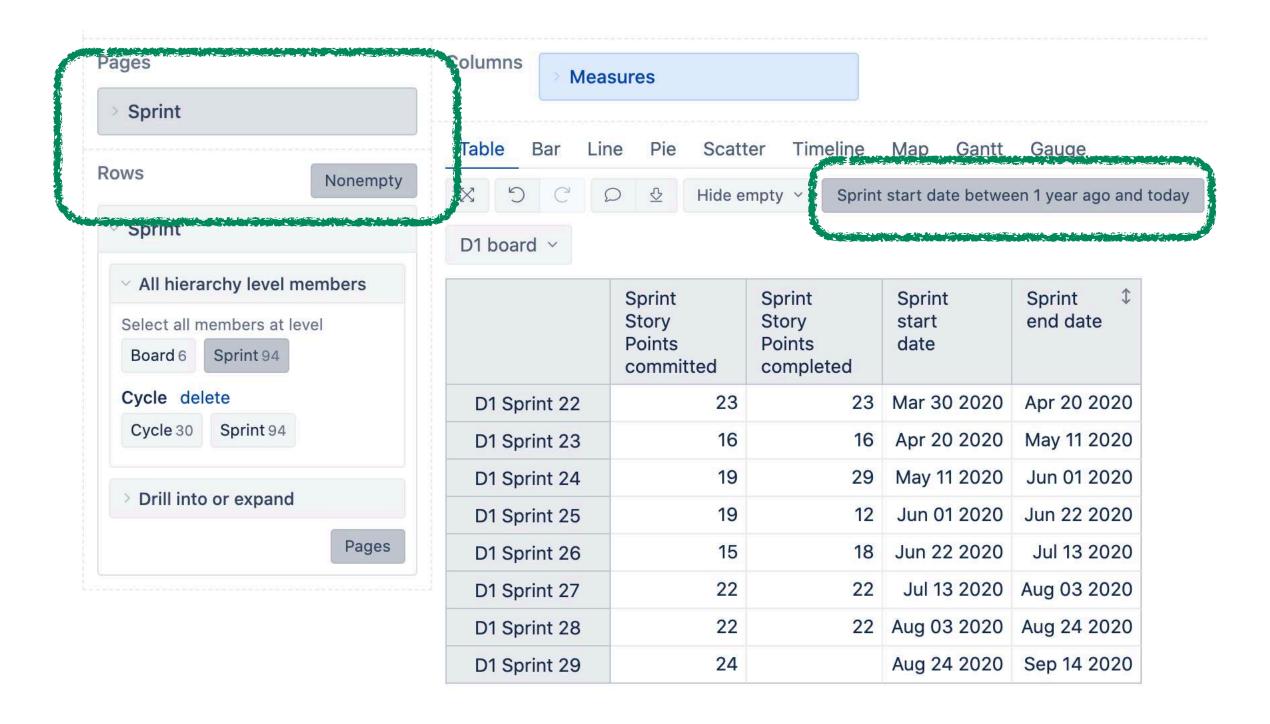
Several dimensions on Rows - Issues

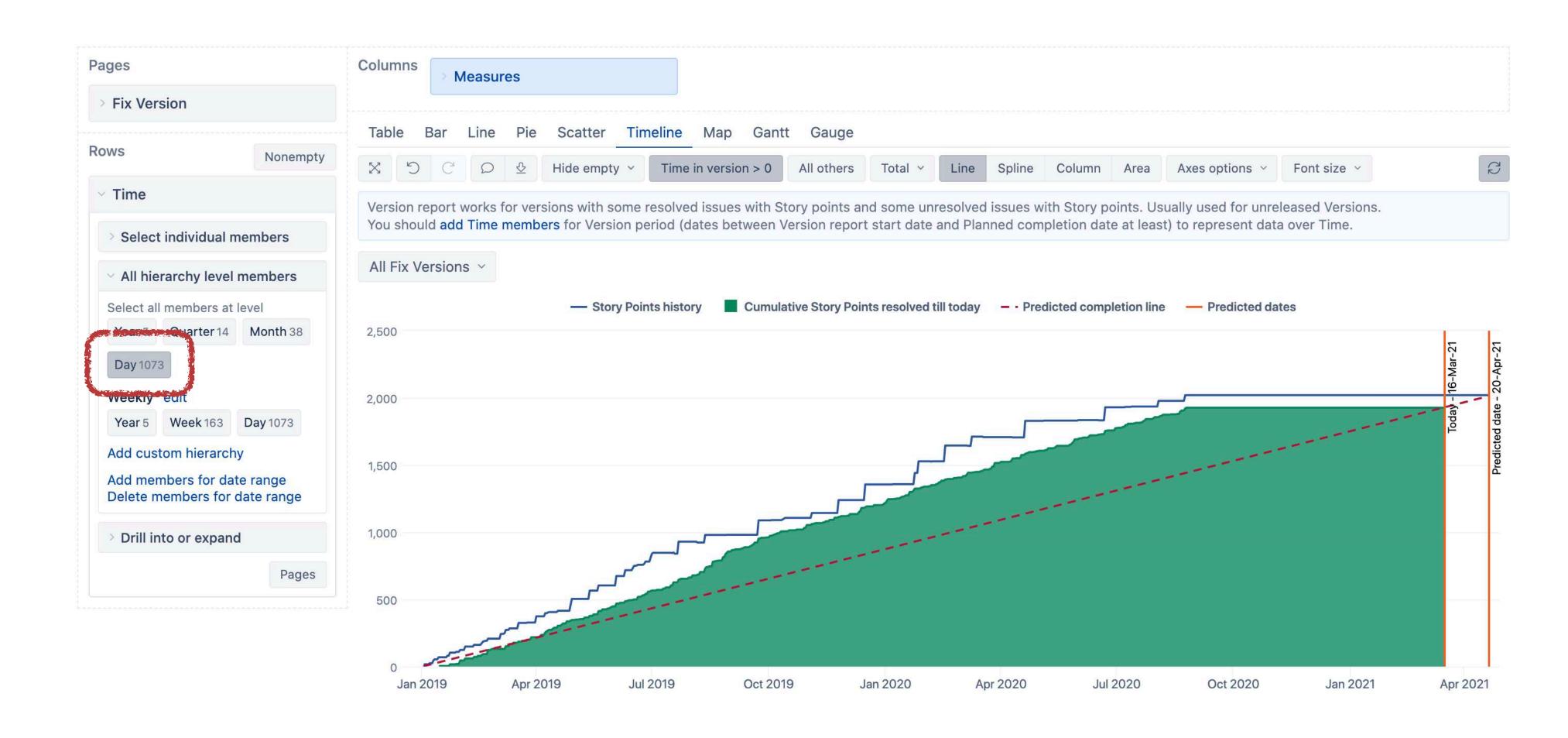


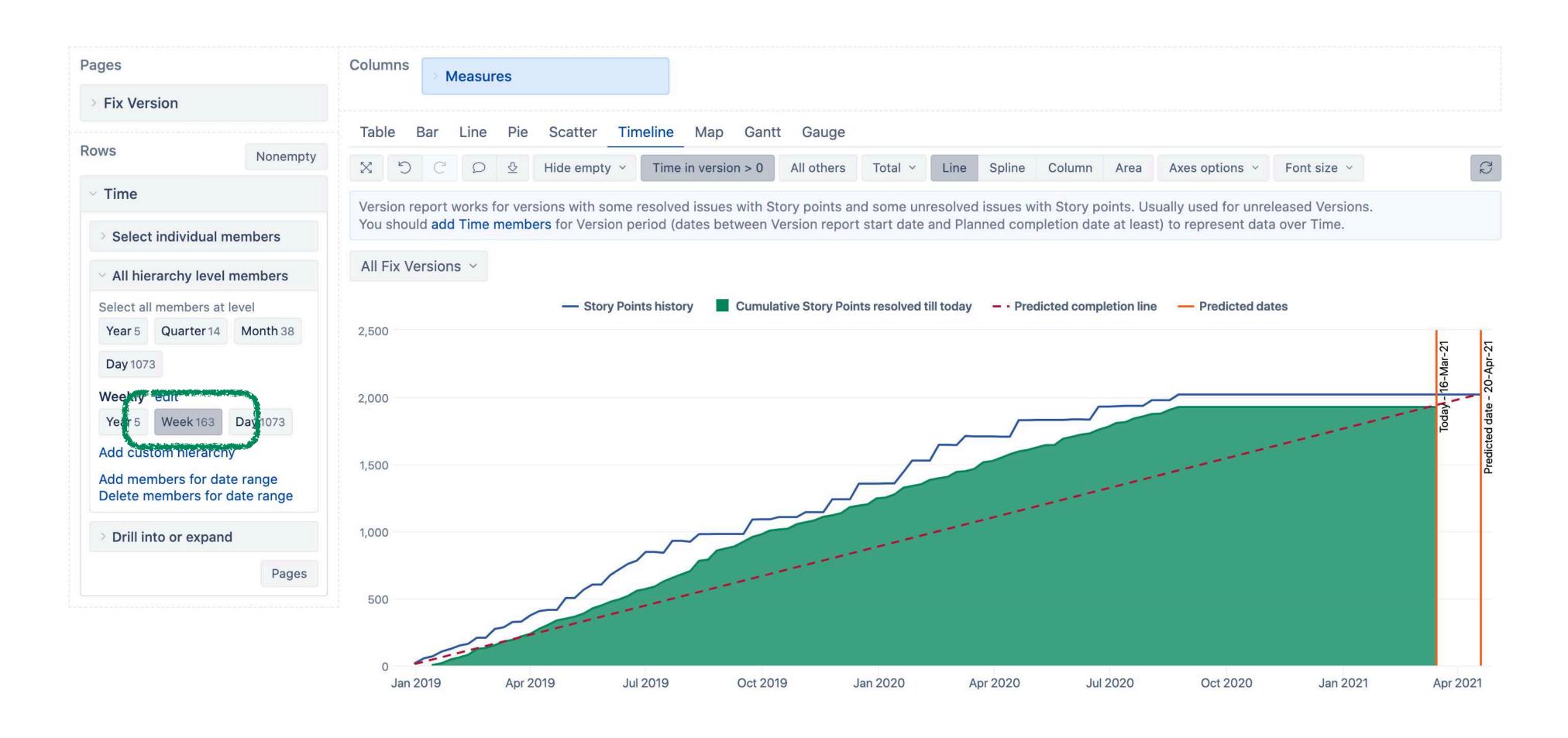


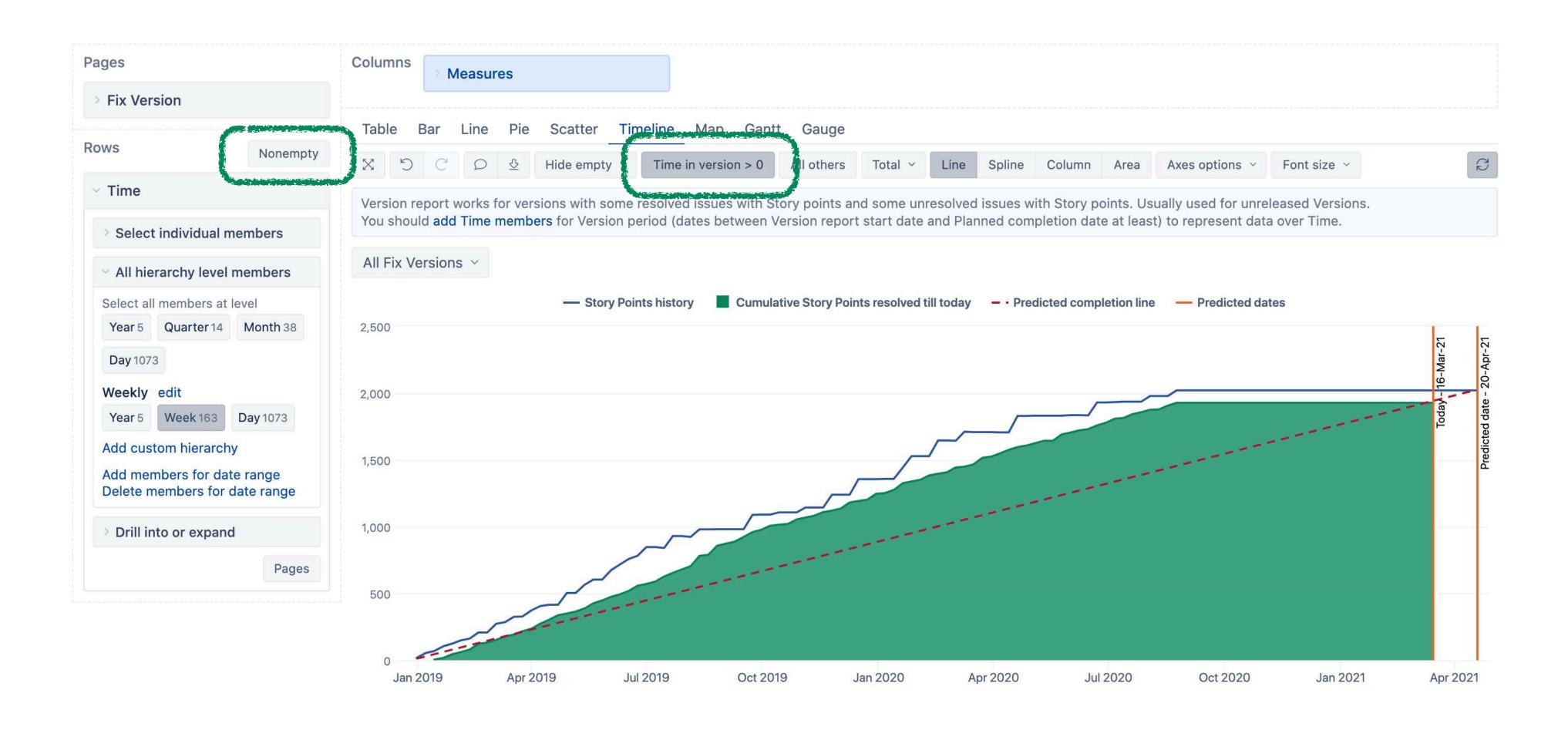




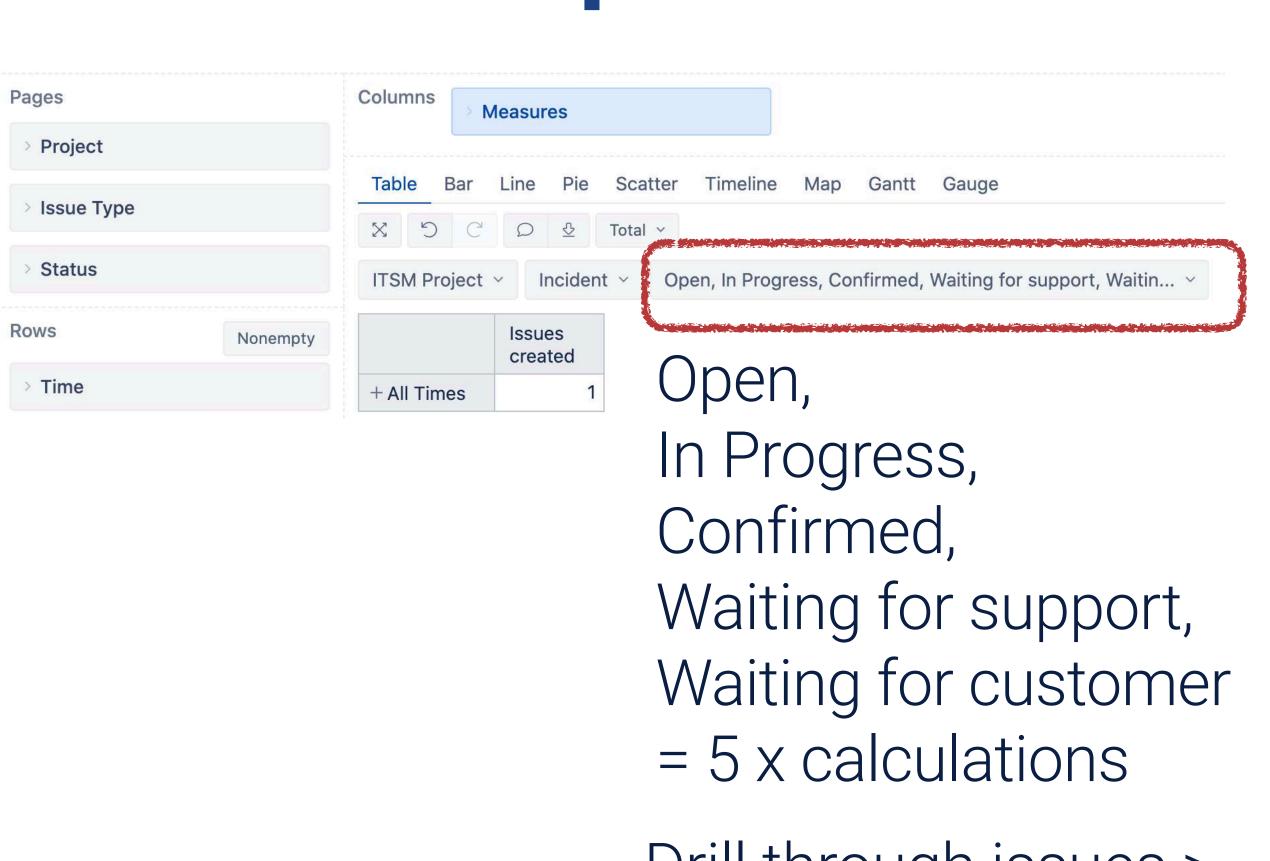




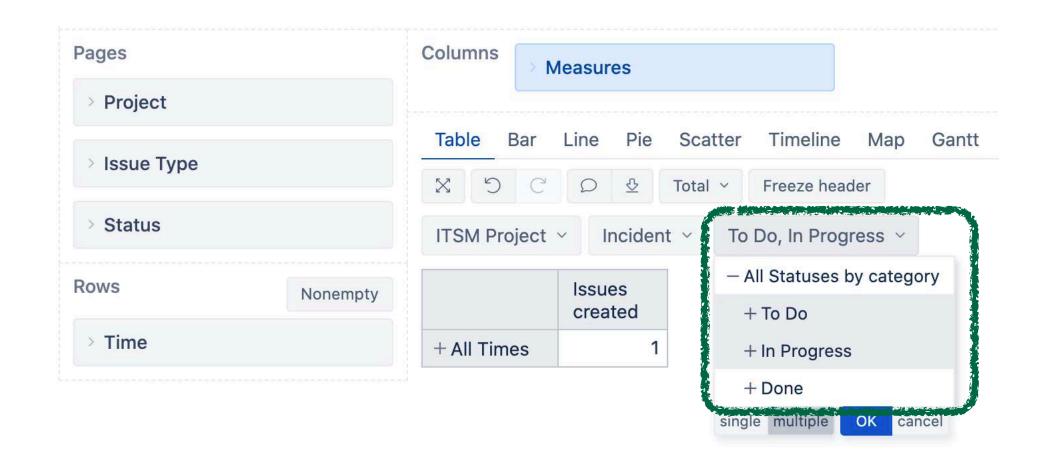


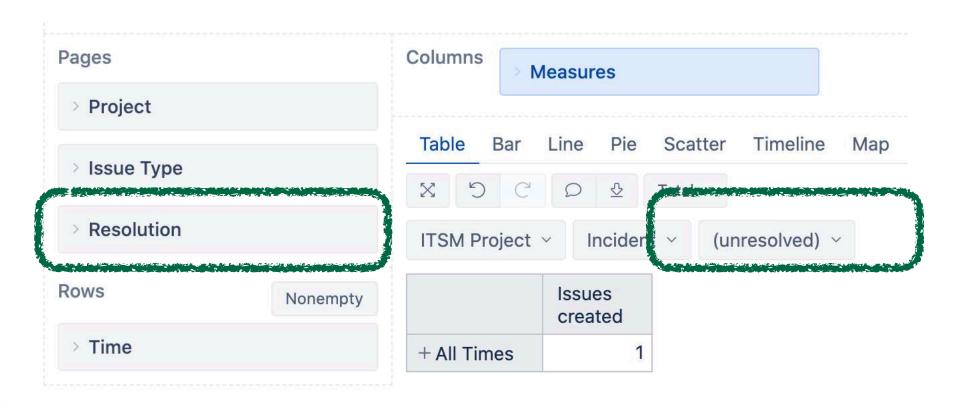


Multiple values selections on Pages



Drill through issues > x all issues imported into the account





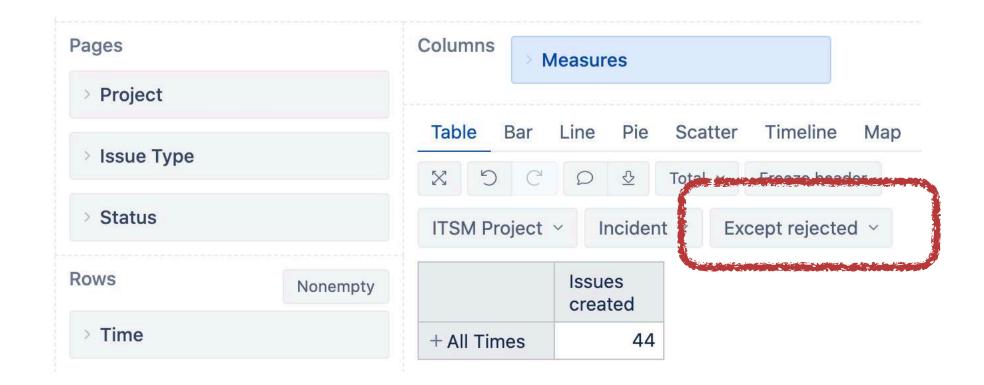
Multiple values selections on Pages

Issue Type

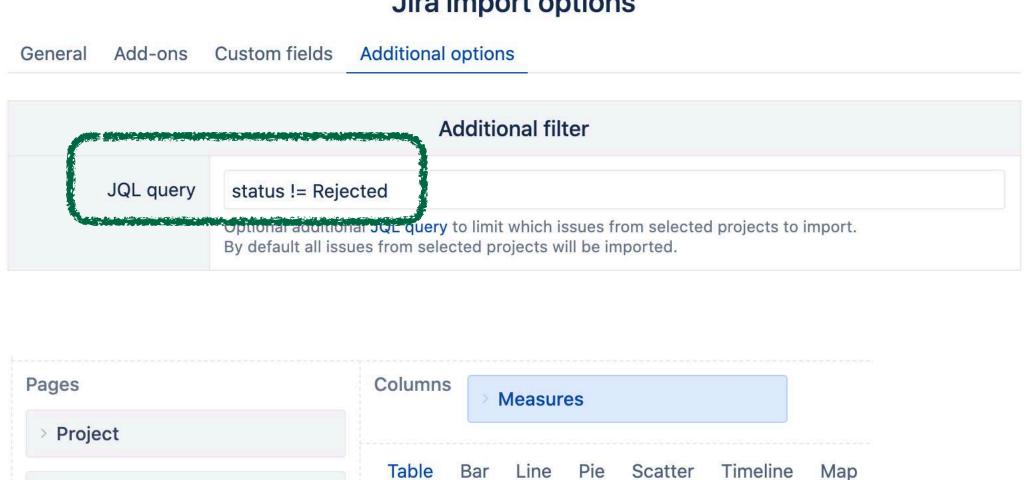
Status

Rows

→ Time



Jira import options



X 5 C D & Total v

Issues

created

Incident ~

All Statuses Y

ITSM Project V

+ All Times

Nonempty

Calculations on sets

```
Count(Filter(
   Descendants([Issue].CurrentMember,[Issue].[Issue]),
   [Measures].[Issue status] <> "Done"
   AND
   [Measures].[Issues created] > 0
))
```

Tuples and arithmetic operations

Other dimensions

Use properties

Tuples

Substitute calculations on sets whenever possible

```
([Measures].[Issues created], [Resolution].[(unresolved)])
```

Arithmetic operations

Check if some arithmetic operations can give you the needed results

```
([Measures].[Issues created],
  [Status].DefaultMember)
-
([Measures].[Issues created],
  [Status].[Done])
```

Tuples and arithmetical operations

Other dimensions

Use properties

Other dimensions

Use other dimensions to minimize count of members that will be included in the calculation

Status > Resolution Time

Any other dimension explicitly addressed in the calculation you would like to optimize

```
Sum(
    Except(
        [Status].[Status].Members,
        [Status].[Done]
    ),
    [Measures].[Issues created]
)
```

Tuples and arithmetical operations

Other dimensions

Use properties

Optimize set by using properties as only filters

```
Sum (Filter (
 Descendants ([Issue]. Current Member, [Issue].
[Issue]),
  [Measures].[Issue status] <> "Done"
 AND
 DateInPeriod(
   [Measures].[Issue created date],
   [Time].CurrentHierarchyMember
  [Measures].[Issues created]
```

Custom hierarchies

Calculated
JavaScript
custom fields

Plan several accounts

Custom hierarchies

Build custom hierarchies on properties imported with additional data import Applicable for: Project, Sprint, any user dimension, more dimensions coming soon

Great as a substitute of multiple selections / calculated members

Points for consideration

Account specific - should be defined in each account
Easier to support and maintain different scenarios for one
dimension with less impact on database size
Some scenarios could be easier to prepare (excel file with values)

Custom hierarchies

Calculated JavaScript custom fields

Plan several accounts

JavaScript custom fields

Build new dimensions and new measures

Great as a substitute of complex calculations

Points for consideration

Admin is needed to define new fields
The best option to import new measures
More complex scenarios
Option to extend data model
Will impact database size (dimensions more than measures and dates)

Custom hierarchies

Calculated
JavaScript
custom fields

Plan several accounts

Overview

Many issues, overview reports, imported measures

Actual data

Limit data by Projects and JQL query to get small actual issue set for each team / project > use template reports

Template accounts

Define and maintain a set of approved reports for teams / projects

Make it a habit

