



easyBI

Understanding Tuples

Lauma Cīrule



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“Quality addict. Used to be a Testing Manager, now a full-time support queen.”



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What is tuple?

Why at eazyBI
support we love
them?

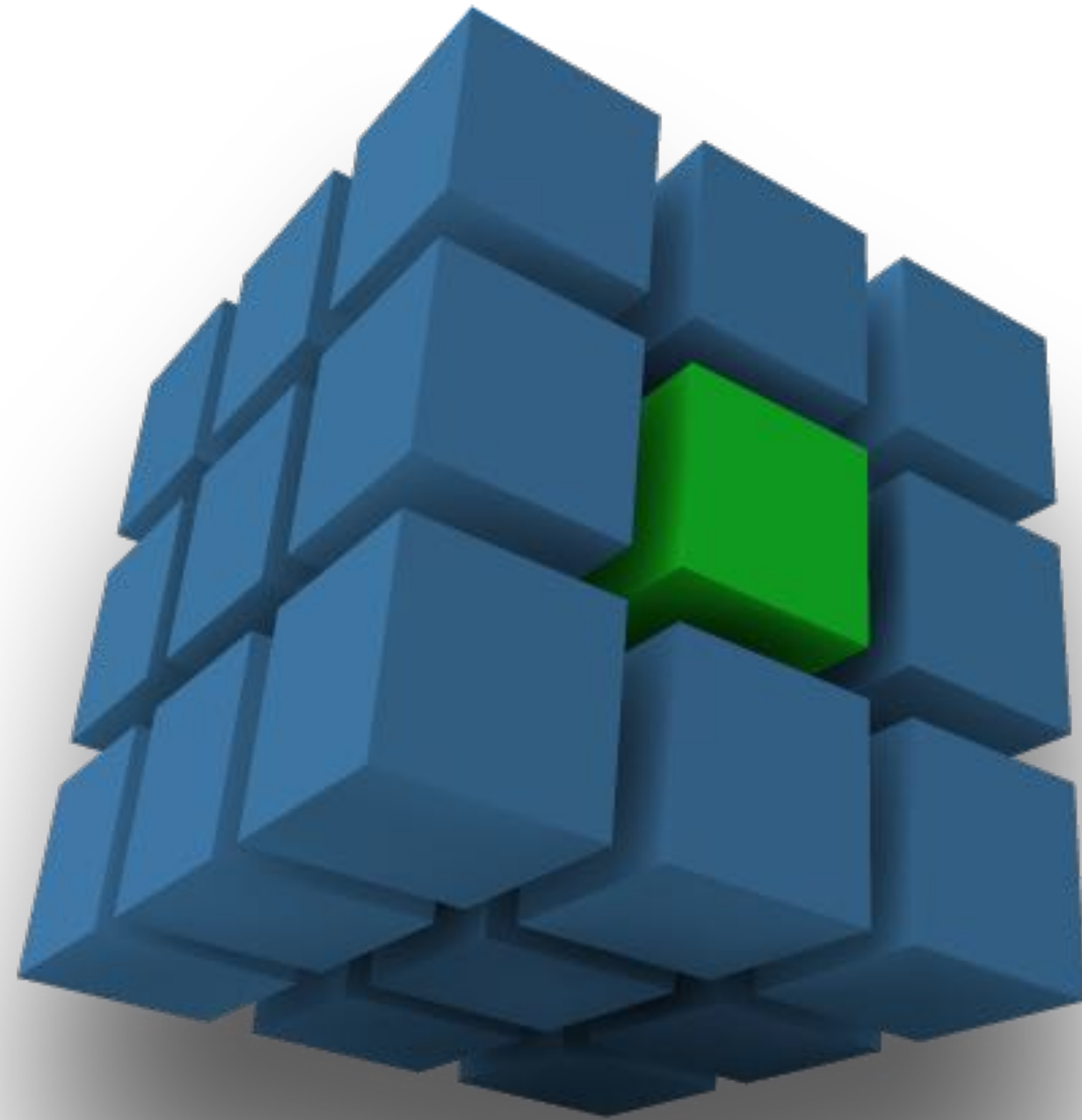
Real life examples
with eazyBI

What is tuple?

A tuple is an intersection of exactly a single member from each dimension (hierarchy) in the cube.

Mark Whitehorn, Robert Zare and Mosha Pasumansky “Fast Track to MDX”
2004, Springer

Tuple always identifies an **exact cell** in the multi-dimensional matrix



```
(  
  [Measures].[Issues created],  
  [Issue Type].[Bug],  
  [Time].[2018].[Q2 2018].[May 2018]  
)
```



Sets

Going through large sets with Descendants(..) can be problematic...
Though sometimes necessary.



Tuple

By using Tuple we can often avoid long running reports, timeouts ...

Tuple examples

Bugs created

Top Priorities %

User logged hours

Issues in Fix Version

Bugs created

```
(  
  [Measures].[Issues created],  
  [Issue Type].[Bug]  
)
```

Issues created without bugs

```
[Measures].[Issues created] -  
[Measures].[Bugs created]
```

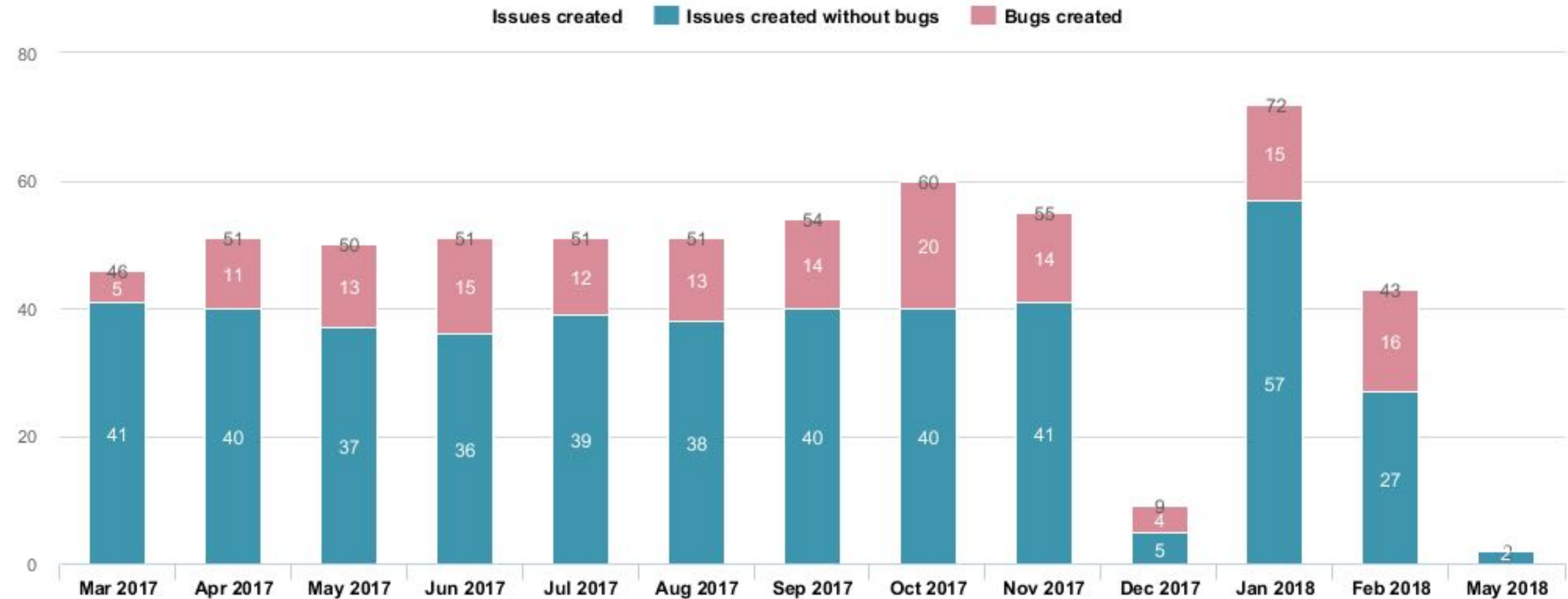
Tuple examples

Bugs created

Top Priorities %

User logged hours

Issues in Fix Version



Tuple examples

Bugs created

Top Priorities %

User logged hours

Issues in Fix Version

```
% resolved in Top priorities
```

```
(
```

```
[Measures].[Issues resolved],
```

```
[Priority].[Top priorities]
```

```
)
```

```
/
```

```
(
```

```
[Measures].[Issues resolved],
```

```
[Priority].DefaultMember
```

```
)
```


Tuple examples

Bugs created

Top Priorities %

User logged
hours

Issues in Fix
Version

Top priorities

```
Aggregate ( {  
    [Priority] . [Highest] ,  
    [Priority] . [High]  
} )
```

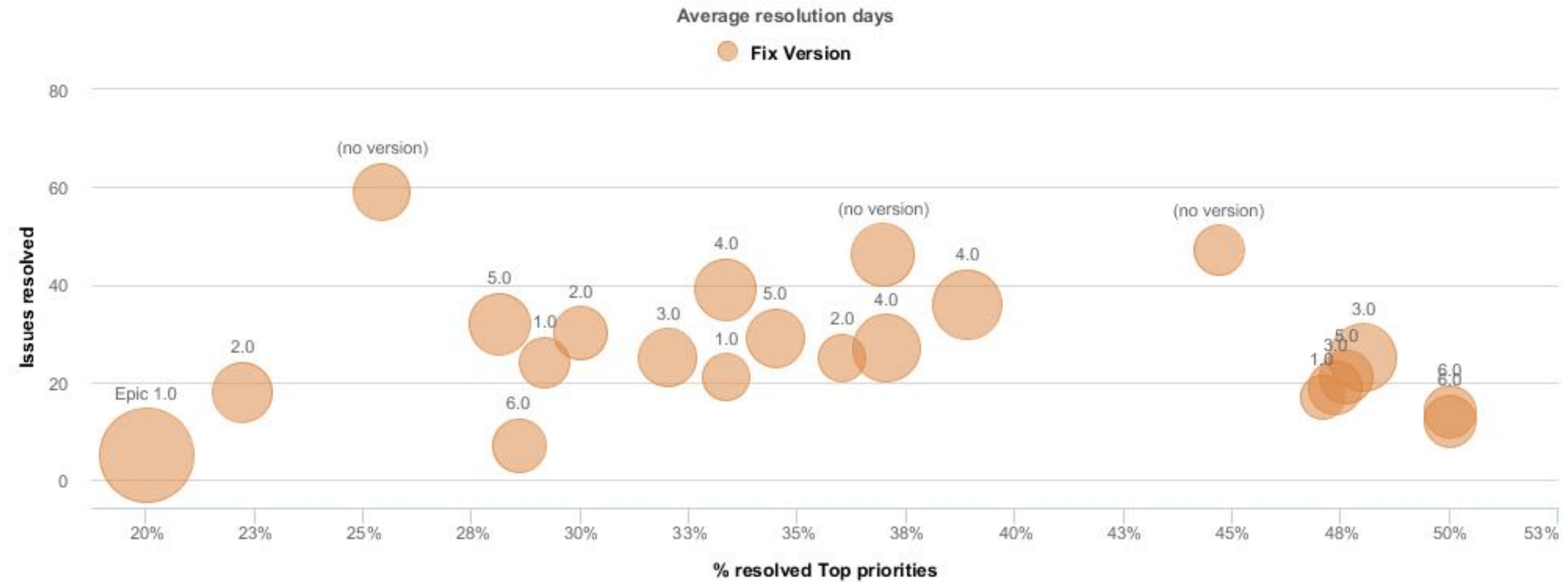

Tuple examples

Bugs created

Top Priorities %

User logged hours

Issues in Fix Version



Tuple examples

Bugs created

Top Priorities %

User logged hours

Issues in Fix Version

Hours spent in assigned issues

```
(  
    [Measures].[Hours spent],  
    [Logged by].[User].GetMemberByKey(  
        [Assignee].CurrentMember.Key  
    )  
)
```


Tuple examples

Bugs created

Top Priorities %

User logged
hours

Issues in Fix
Version

Hours spent in any issue

```
(  
  [Measures].[Hours spent],  
  [Logged by].[User].GetMemberByKey(  
    [Assignee].CurrentMember.Key  
  ),  
  [Assignee].DefaultMember  
)
```

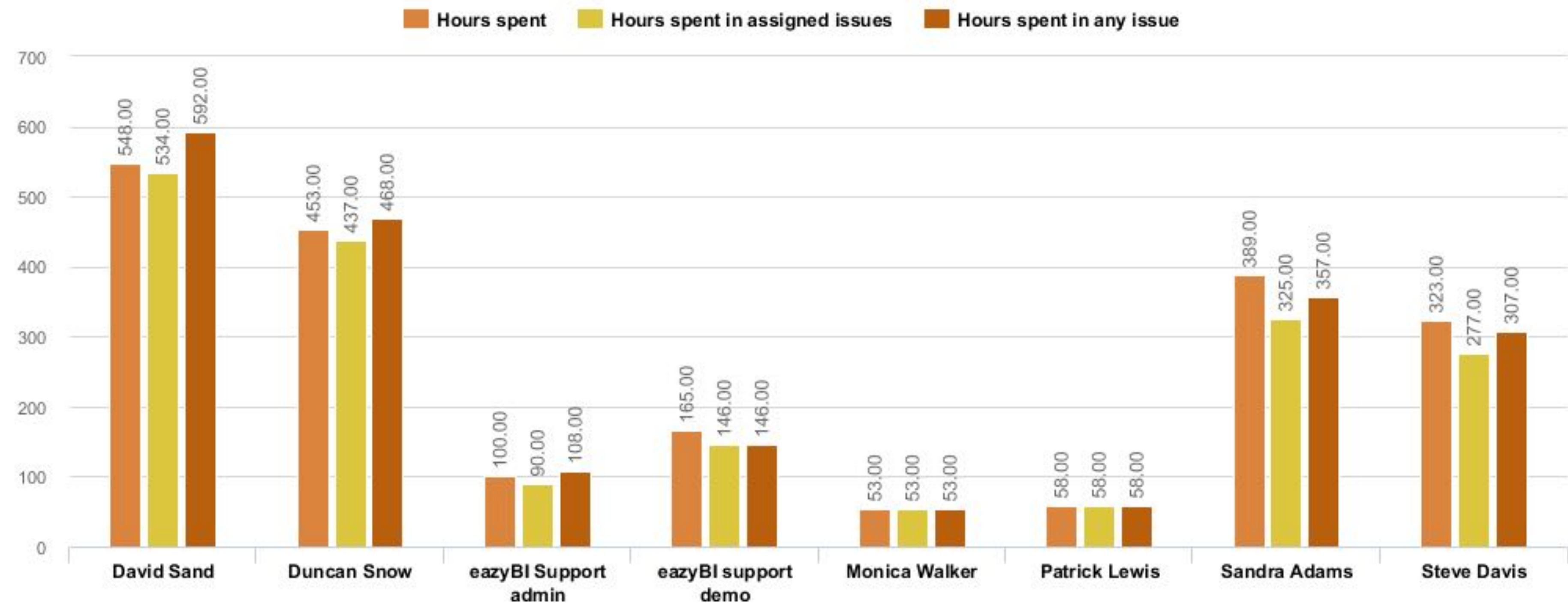
Tuple examples

Bugs created

Top Priorities %

User logged hours

Issues in Fix Version



Tuple examples

Bugs created

Top Priorities %

User logged hours

Issues in Fix Version

Open issues on version start date

```
(  
  [Measures].[Open issues],  
  [Time].CurrentHierarchy.  
    Levels('Day').DateMember(  
      [Fix version].  
        CurrentHierarchyMember.Get(  
          'Start date')  
    )  
)
```

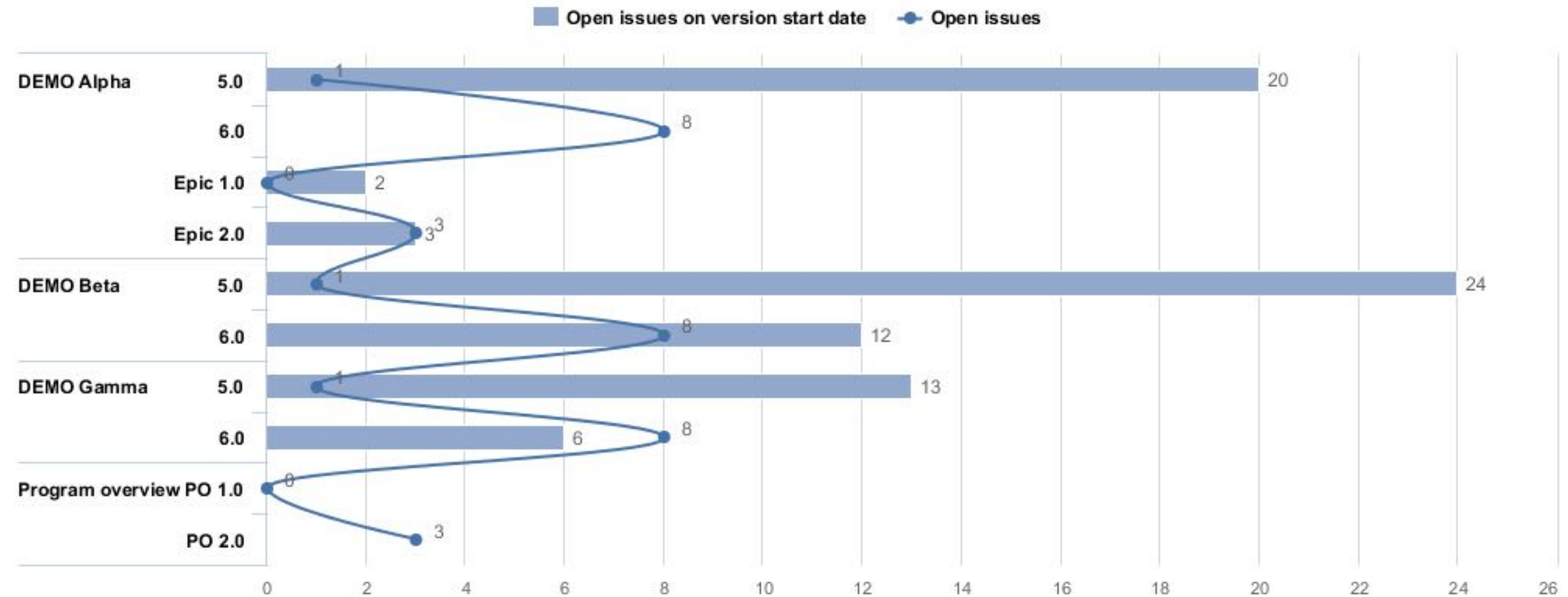
Tuple examples

Bugs created

Top Priorities %

User logged hours

Issues in Fix Version





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