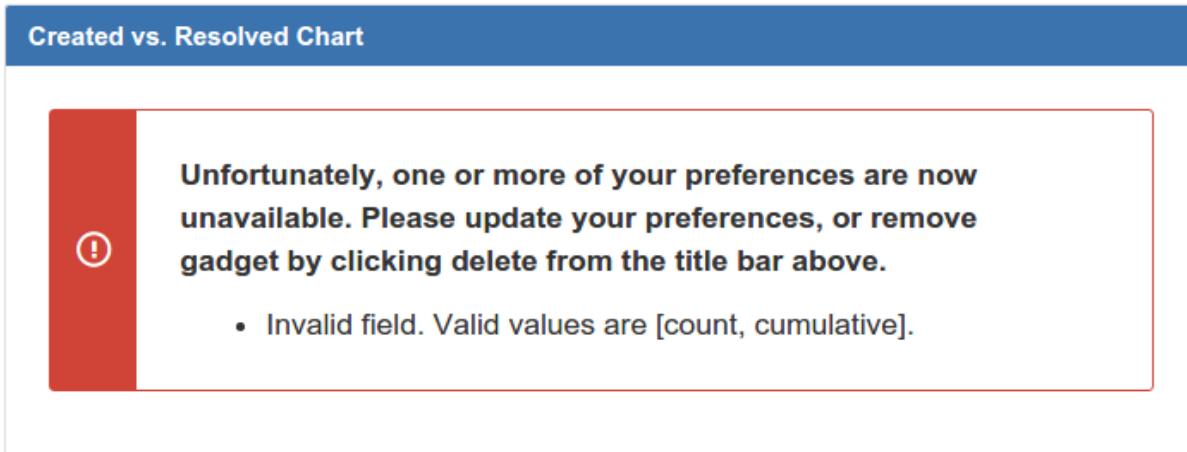


Fixing JIRA graph gadgets broken by JRA-59364

JIRA 7 bug JRASERVER-59364 - Created vs. Resolved gadget should respect the Cumulative Totals option set before the upgrade CLOSED
causes most 'Created vs. Resolved Chart' gadgets on dashboards to break with the error:

Invalid field. Valid values are [count, cumulative].



Broken portlets can be fixed individually by editing them and setting Collection Operation to either Cumulative (emulating the old default behaviour) or Count:

Created vs. Resolved Chart

Project or Saved* **project-11353**

Filter:

Project or saved filter to use as the basis for the graph.
[Advanced Search](#)

Period*: **Daily**

The length of periods represented on the graph.

Days Previously* **30**

Days in the past to collect data for the selected period.

Collection Operation* **Cumulative**

Count
Count
Cumulative

Display the Trend of Unresolved

No

Show the number of unresolved issues over time in a subplot.

Display Versions* **Only major versions**

Show when versions were released on the chart.

Auto refresh Update every 15 minutes

However only the dashboard owner can do this, and it's not exactly intuitive. This page describes a SQL fix to migrate all Created vs Resolved portlets to the new preference format.

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- Shameless Plug

I haven't yet upgraded. Will I be affected?

If [JRASERVER-59364](#) - Created vs. Resolved gadget should respect the Cumulative Totals option set before the upgrade CLOSED isn't marked resolved, then probably, yes. Find out which dashboards will be affected by running the SQL:

```
jira=> SELECT DISTINCT portalpage.pagename AS "Dashboard",
    concat('http://jira.example.com/secure/Dashboard.jspa?selectPageId=', portalpage.id) AS URL,
    app_user.lower_user_name AS "Owner"
FROM portalpage JOIN portletconfiguration ON portalpage.id=portletconfiguration.portalpage
    JOIN cwd_user ON portalpage.username=cwd_user.user_name
    JOIN app_user ON cwd_user.user_name=app_user.user_key
WHERE portletconfiguration.gadget_xml ~'createdvsresolved-gadget.xml';

Dashboard          url           Owner
My Custom Dashboard  http://jira.example.com/secure/Dashboard.jspa?selectPageId=10200  jturner
(1 row)
```

How do I fix it?

With JIRA shut down, *****BACK UP YOUR JIRA DATABASE*****, and then run this SQL:

```
CREATE TEMP SEQUENCE prefid;
SELECT setval('prefid', max(id)::integer + 1) FROM gadgetuserpreference;
WITH gadgetprefs AS (select gup.* from gadgetuserpreference gup JOIN portletconfiguration pc ON gup.
portletconfiguration=pc.id WHERE pc.gadget_xml~'createdvsresolved-gadget.xml'),
filterprefs AS (select * from gadgetprefs WHERE userprefkey='projectOrFilterId'),
cumulativeprefs AS (select * from gadgetprefs WHERE userprefkey='isCumulative'),
relevantprefs AS (select portletconfiguration, filterprefs.userprefvalue AS projectOrFilterId,
cumulativeprefs.userprefvalue AS isCumulative FROM filterprefs JOIN cumulativeprefs USING
(portletconfiguration)),
prefs AS (select portletconfiguration, projectOrFilterId, regexp_replace(projectOrFilterId, '-\d+', '') AS type,
regexp_replace(projectOrFilterId, '(filter|project)-', '') AS id, iscumulative FROM relevantprefs),
newvals AS (select nextval('prefid') AS ID,
portletconfiguration,
t.userprefkey,
CASE t.userprefkey
WHEN 'operation' THEN (CASE prefs.isCumulative WHEN
'true' THEN 'cumulative' ELSE 'count' END)
WHEN 'id' THEN prefs.id
WHEN 'name' THEN CASE type WHEN 'project' THEN (SELECT
pname FROM project WHERE id=prefs.id::integer) WHEN 'filter' THEN prefs.projectOrFilterId END
WHEN 'type' THEN prefs.type
END AS userprefvalue
FROM prefs,
VALUES ('name'), ('operation'), ('id'), ('type')) AS t(userprefkey)
INSERT INTO gadgetuserpreference SELECT * FROM newvals;
UPDATE sequence_value_item SET seq_id = (SELECT ceil(max(id)/100)*100 FROM gadgetuserpreference) WHERE
seq_name='GadgetUserPreference';
```

! There may be Postgresisms in this SQL. Proceed with caution.

What's going on?

Each gadget has a bunch of parameters:

Created vs. Resolved Chart

Project or Saved* **project-11353**

Filter:

Project or saved filter to use as the basis for the graph.
Advanced Search

Period*: **Daily**

The length of periods represented on the graph.

Days Previously* **30**

Days in the past to collect data for the selected period.

Collection Operation* **Cumulative**

Count
Count individual values
Cumulative

Display the Trend of Unresolved* **No**

Show the number of unresolved issues over time in a subplot.

Display Versions* **Only major versions**

Show when versions were released on the chart.

Auto refresh Update every 15 minutes

Save **Cancel**

These parameters are saved in the `gadgetuserpreferences` database table.

In JIRA 7.x, Atlassian reimplemented the Created vs Resolved gadget, and **changed the parameters**. Here is a before/after diff on the params for a filter-using portlet (see [Using database diffs to see what JIRA is doing](#) for details on the technique):

id	portletconfiguration	userprefkey	userprefvalue
12398	10801	daysprevious	600
12399	10801	isConfigured	true
12393	10801	isCumulative	true
12392	10801	isPopup	false
12396	10801	periodName	monthly
12397	10801	projectOrFilterId	filter-10601
12394	10801	refresh	false
12395	10801	showUnresolvedTrend	false
12391	10801	versionLabel	major

(9 rows)

id	portletconfiguration	userprefkey	userprefvalue
12625	10801	daysprevious	600
12626	10801	id	10601
12615	10801	isConfigured	true
12623	10801	isCumulative	true
12616	10801	isPopup	false
12624	10801	name	filter-10601
12627	10801	operation	cumulative
12619	10801	periodName	monthly
12620	10801	projectOrFilterId	filter-10601
12617	10801	refresh	false
12618	10801	showUnresolvedTrend	false
12621	10801	type	filter
12622	10801	versionLabel	major

(13 rows)

and a project-using portlet:

id	portletconfiguration	userprefkey	userprefvalue
12526	10900	daysprevious	500
12518	10900	isConfigured	true
12521	10900	isCumulative	true
12520	10900	isPopup	false
12524	10900	periodName	monthly
12525	10900	projectOrFilterId	project-10800
12522	10900	refresh	false
12523	10900	showUnresolvedTrend	false
12519	10900	versionLabel	major

(9 rows)

id	portletconfiguration	userprefkey	userprefvalue
12651	10900	daysprevious	500
12652	10900	id	10800
12641	10900	isConfigured	true
12649	10900	isCumulative	true
12642	10900	isPopup	false
12650	10900	name	IT Tasks
12653	10900	operation	cumulative
12645	10900	periodName	monthly
12646	10900	projectOrFilterId	project-10800
12643	10900	refresh	false
12644	10900	showUnresolvedTrend	false
12647	10900	type	project
12648	10900	versionLabel	major

(13 rows)

Specifically, they introduced 4 new parameters, `type`, `id`, `name` and `operation`, whose values are derived from the old parameters.

Atlassian **should** have written an 'upgrade task' to derive these new parameters from the old, and delete the old (to avoid confusing future generations). That is the topic of

 **JRASERVER-59364** - Created vs. Resolved gadget should respect the Cumulative Totals option set before the upgrade CLOSED

But we can derive the new params ourselves with a bit of SQL.

Deriving the SQL Fix

Background: database tables involved in JIRA portlets

In the JIRA database:

- The `portalpage` table stores user's dashboards, e.g. "My Custom Dashboard".
- The `portletconfiguration` table stores individual portlets on dashboards. E.g. it records that there are N gadgets on "My Custom Dashboard", as well as their position and type.
- The `gadgetuserpreference` table stores portlet configuration details. E.g. for a "Created vs Resolved" portlet it stores the filter ID the portlet displays data from.

Database table	Sample data
<code>portalpage</code>	<pre>select * from portalpage where id=10200; id username pagename description sequence fav_count layout ppversion 10200 jturner My Custom Dashboard 1 AA 11 (1 row)</pre>
<code>portletconfiguration</code>	<pre>select * from portletconfiguration where portalpage=10200; id portalpage portlet_id column_number positionseq gadget_xml color dashboard_module_complete_key 10801 10200 1 0 rest/gadgets/1.0/g/com. atlassian.jira.gadgets:created-vs-resolved-issues-chart-gadget/gadgets/createdvsresolved- gadget.xml color1 10803 10200 0 0 rest/gadgets/1.0/g/com. atlassian.jira.gadgets:created-vs-resolved-issues-chart-gadget/gadgets/createdvsresolved- gadget.xml color1 10802 10200 0 1 rest/gadgets/1.0/g/com. atlassian.jira.gadgets:pie-chart-gadget/gadgets/piechart-gadget. xml color1 10800 10200 0 2 rest/gadgets/1.0/g/com. atlassian.jira.gadgets:assigned-to-me-gadget/gadgets/assigned-to-me-gadget. xml color1 (4 rows)</pre>

gadgetuserpreference	Pre-JIRA 7.0.5	JIRA 7.0.5+																																																																																																
	<pre>select * from gadgetuserpreference where portletconfiguration=10801 order by userprefkey;</pre> <table> <thead> <tr> <th>id</th> <th>portletconfiguration</th> <th>userprefkey</th> <th>userprefvalue</th> </tr> </thead> <tbody> <tr><td>12398</td><td>10801</td><td>daysprevious</td><td>600</td></tr> <tr><td>12390</td><td>10801</td><td>isConfigured</td><td>true</td></tr> <tr><td>12393</td><td>10801</td><td>isCumulative</td><td>true</td></tr> <tr><td>12392</td><td>10801</td><td>isPopup</td><td>false</td></tr> <tr><td>12396</td><td>10801</td><td>periodName</td><td>monthly</td></tr> <tr><td>12397</td><td>10801</td><td>projectOrFilterId</td><td>filter-10601</td></tr> <tr><td>12394</td><td>10801</td><td>refresh</td><td>false</td></tr> <tr><td>12395</td><td>10801</td><td>showUnresolvedTrend</td><td>false</td></tr> <tr><td>12391</td><td>10801</td><td>versionLabel</td><td>major</td></tr> </tbody> </table> <p>(9 rows)</p>	id	portletconfiguration	userprefkey	userprefvalue	12398	10801	daysprevious	600	12390	10801	isConfigured	true	12393	10801	isCumulative	true	12392	10801	isPopup	false	12396	10801	periodName	monthly	12397	10801	projectOrFilterId	filter-10601	12394	10801	refresh	false	12395	10801	showUnresolvedTrend	false	12391	10801	versionLabel	major	<pre>select * from gadgetuserpreference where portletconfiguration=10801 order by userprefkey;</pre> <table> <thead> <tr> <th>id</th> <th>portletconfiguration</th> <th>userprefkey</th> <th>userprefvalue</th> </tr> </thead> <tbody> <tr><td>12525</td><td>10801</td><td>daysprevious</td><td>600</td></tr> <tr><td>12526</td><td>10801</td><td>id</td><td>10601</td></tr> <tr><td>12515</td><td>10801</td><td>isConfigured</td><td>true</td></tr> <tr><td>12523</td><td>10801</td><td>isCumulative</td><td>true</td></tr> <tr><td>12516</td><td>10801</td><td>isPopup</td><td>false</td></tr> <tr><td>12524</td><td>10801</td><td>name</td><td>filter-10601</td></tr> <tr><td>12527</td><td>10801</td><td>operation</td><td>cumulative</td></tr> <tr><td>12519</td><td>10801</td><td>periodName</td><td>monthly</td></tr> <tr><td>12520</td><td>10801</td><td>projectOrFilterId</td><td>filter-10601</td></tr> <tr><td>12517</td><td>10801</td><td>refresh</td><td>false</td></tr> <tr><td>12518</td><td>10801</td><td>showUnresolvedTrend</td><td>false</td></tr> <tr><td>12521</td><td>10801</td><td>type</td><td>filter</td></tr> <tr><td>12522</td><td>10801</td><td>versionLabel</td><td>major</td></tr> </tbody> </table> <p>(13 rows)</p>	id	portletconfiguration	userprefkey	userprefvalue	12525	10801	daysprevious	600	12526	10801	id	10601	12515	10801	isConfigured	true	12523	10801	isCumulative	true	12516	10801	isPopup	false	12524	10801	name	filter-10601	12527	10801	operation	cumulative	12519	10801	periodName	monthly	12520	10801	projectOrFilterId	filter-10601	12517	10801	refresh	false	12518	10801	showUnresolvedTrend	false	12521	10801	type	filter	12522	10801	versionLabel	major
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SQL part 1: collecting relevant old-portlet data

Let us look at the newly introduced preferences in more detail:

id	portletconfiguration	userprefkey	userprefvalue	id	portletconfiguration	userprefkey	userprefvalue
12398	10801	daysprevious	600	12625	10801	daysprevious	600
12390	10801	isConfigured	true	12626	10801	id	10601
12393	10801	isCumulative	true	12615	10801	isConfigured	true
12392	10801	isPopup	false	12623	10801	isCumulative	true
12396	10801	periodName	monthly	12616	10801	isPopup	false
12397	10801	projectOrFilterId	filter-10601	12624	10801	name	filter-10601
12394	10801	refresh	false	12627	10801	operation	cumulative
12395	10801	showUnresolvedTrend	false	12619	10801	periodName	monthly
12391	10801	versionLabel	major	12620	10801	projectOrFilterId	filter-10601
(9 rows)				12617	10801	refresh	false
				12618	10801	showUnresolvedTrend	false
				12621	10801	type	filter
				12622	10801	versionLabel	major
(13 rows)							

The new prefs are:

- **type** is project or filter, depending on the portlet's data source
- **id** is the ID of the filter or project
- **name** is a human-readable project or filter name, where:
 - if **type** is a project, then **name** should be the project name, and is actually displayed in the portlet.
 - if **type** is a filter, it doesn't really matter what **name** is – JIRA set it to filter-xxxxx and doesn't use it.
- **operation** has value cumulative or count

Recreating the missing parameters

Notice that all of the 4 new parameter values can be derived just by looking at the old **projectOrFilterId** and **isCumulative** parameters.

So first we write some SQL to print the **projectOrFilterId** and **isCumulative** parameters for each Created vs Resolved portlet:

```
WITH gadgetprefs AS (select gup.* from gadgetuserpreference gup JOIN portletconfiguration pc ON gup.portletconfiguration=pc.id WHERE pc.gadget_xml~'createdvsresolved-gadget.xml'),
      filterprefs AS (select * from gadgetprefs WHERE userprefkey='projectOrFilterId'),
      cumulativeprefs AS (select * from gadgetprefs WHERE userprefkey='isCumulative'),
      relevantprefs AS (select portletconfiguration, filterprefs.userprefvalue AS projectOrFilterId,
cumulativeprefs.userprefvalue AS isCumulative FROM filterprefs JOIN cumulativeprefs USING
(portletconfiguration))
      SELECT * From relevantprefs;

portletconfiguration    projectorfilterid    iscumulative

      10801    filter-10601      true
      10803    filter-10601      false
      10900    project-10800     true

(3 rows)
```

The same, but using `regexp_replace()` to break `projectorfilterid` into its constituent parts:

```
jira=> WITH gadgetprefs AS (select gup.* from gadgetuserpreference gup JOIN portletconfiguration pc ON gup.portletconfiguration=pc.id WHERE pc.gadget_xml~'createdvsresolved-gadget.xml'),
      filterprefs AS (select * from gadgetprefs WHERE userprefkey='projectOrFilterId'),
      cumulativeprefs AS (select * from gadgetprefs WHERE userprefkey='isCumulative'),
      relevantprefs AS (select portletconfiguration, filterprefs.userprefvalue AS projectOrFilterId,
cumulativeprefs.userprefvalue AS isCumulative FROM filterprefs JOIN cumulativeprefs USING
(portletconfiguration)),
      prefs AS (select portletconfiguration, projectOrFilterId, regexp_replace(projectOrFilterId, '-\d+', '') AS type,
      regexp_replace(projectOrFilterId, '(filter|project)-', '') AS id, iscumulative FROM relevantprefs)
      SELECT * from prefs;

portletconfiguration    projectorfilterid    type      id      iscumulative

      10801    filter-10601      filter    10601  true
      10803    filter-10601      filter    10601  false
      10900    project-10800     project   10800  true

(3 rows)
```

SQL part 2: inserting new rows

The trick here is generating 4 *new* rows for each matching row above. We can create a 'fake' table to cross-join with our `relevantprefs` using a `VALUES` clause:

```
jira=> select * from (VALUES ('name'), ('operation'), ('id'), ('type')) AS t(userprefkey);

userprefkey

name
operation
id
type

(4 rows)
```

Then 4 new rows for each of our portlets yields:

```

WITH gadgetprefs AS (select gup.* from gadgetuserpreference gup JOIN portletconfiguration pc ON gup.
portletconfiguration=pc.id WHERE pc.gadget_xml~'createdvsresolved-gadget.xml'),
filterprefs AS (select * from gadgetprefs WHERE userprefkey='projectOrFilterId'),
cumulativeprefs AS (select * from gadgetprefs WHERE userprefkey='isCumulative'),
relevantprefs AS (select portletconfiguration, filterprefs.userprefvalue AS projectOrFilterId,
cumulativeprefs.userprefvalue AS isCumulative FROM filterprefs JOIN cumulativeprefs USING
(portletconfiguration)),
prefs AS (select portletconfiguration, projectOrFilterId, regexp_replace(projectOrFilterId, '-\d+', '') AS type, regexp_replace(projectOrFilterId, '(filter|project)-', '') AS id, iscumulative FROM relevantprefs)
SELECT * from prefs,
      (VALUES ('name'), ('operation'), ('id'), ('type')) AS t(userprefkey);

portletconfiguration  projectorfilterid    type      id      iscumulative  userprefkey
10801    filter-10601      filter    10601   true        name
10801    filter-10601      filter    10601   true        operation
10801    filter-10601      filter    10601   true        id
10801    filter-10601      filter    10601   true        type
10803    filter-10601      filter    10601   false       name
10803    filter-10601      filter    10601   false       operation
10803    filter-10601      filter    10601   false       id
10803    filter-10601      filter    10601   false       type
10900   project-10800     project   10800   true        name
10900   project-10800     project   10800   true        operation
10900   project-10800     project   10800   true        id
10900   project-10800     project   10800   true        type

(12 rows)

```

We now have a row containing all relevant old params, plus the new parameter name (name, operation, id and type). Now we just insert a SELECT clause to derive the new userprefvalue from the old params:

```

WITH gadgetprefs AS (select gup.* from gadgetuserpreference gup JOIN portletconfiguration pc ON gup.portletconfiguration=pc.id WHERE pc.gadget_xml~'createdvsresolved-gadget.xml'),
      filterprefs AS (select * from gadgetprefs WHERE userprefkey='projectOrFilterId'),
      cumulativeprefs AS (select * from gadgetprefs WHERE userprefkey='isCumulative'),
      relevantprefs AS (select portletconfiguration, filterprefs.userprefvalue AS projectOrFilterId,
cumulativeprefs.userprefvalue AS isCumulative FROM filterprefs JOIN cumulativeprefs USING
(portletconfiguration)),
      prefs AS (select portletconfiguration, projectOrFilterId, regexp_replace(projectOrFilterId, '-\d+', '') AS type, regexp_replace(projectOrFilterId, '(filter|project)-', '') AS id, iscumulative FROM relevantprefs
SELECT *, CASE t.userprefkey
                           WHEN 'operation' THEN (CASE prefs.isCumulative WHEN
'true' THEN 'cumulative' ELSE 'count' END)
                           WHEN 'id' THEN prefs.id
                           WHEN 'name' THEN CASE type WHEN 'project' THEN (SELECT
pname FROM project WHERE id=prefs.id::integer) WHEN 'filter' THEN prefs.projectOrFilterId END
                           WHEN 'type' THEN prefs.type
                           END AS userprefvalue
FROM prefs,
      (VALUES ('name'), ('operation'), ('id'), ('type')) AS t(userprefkey);

portletconfiguration  projectorfilterid    type      id      iscumulative  userprefkey  userprefvalue
10801   filter-10601      filter    10601  true        name       filter-10601
10801   filter-10601      filter    10601  true        operation  cumulative
10801   filter-10601      filter    10601  true        id         10601
10801   filter-10601      filter    10601  true        type       filter
10803   filter-10601      filter    10601  false       name       filter-10601
10803   filter-10601      filter    10601  false       operation  count
10803   filter-10601      filter    10601  false       id         10601
10803   filter-10601      filter    10601  false       type       filter
10900   project-10800     project   10800  true        name       CrowdFlower
10900   project-10800     project   10800  true        operation  cumulative
10900   project-10800     project   10800  true        id         10800
10900   project-10800     project   10800  true        type       project

(12 rows)

```

Inserting data: dealing with IDs

We've successfully derived the new preferences needed. Now we just need to insert it into the `gadgetuserpreferences` table.

The `gadgetuserpreferences` table has an ID field which must be unique:

```

redradish_jira=> \d gadgetuserpreference
Table "public.gadgetuserpreference"

  Column          Type           Modifiers
  id             numeric(18,0)      not null
portletconfiguration numeric(18,0)
userprefkey        character varying(255)
userprefvalue      text

Indexes:
"pk_gadgetuserpreference" PRIMARY KEY, btree (id)
"userpref_portletconfiguration" btree (portletconfiguration)

```

So we need to generate a sequence of IDs, starting at 1 more than the current max. This is done with a Postgres sequence:

```

CREATE TEMP SEQUENCE prefid;
SELECT setval('prefid', max(id)::integer + 1) FROM gadgetuserpreference;

setval
12712
(1 row)

```

Now we add a `nextval('prefid')` SELECT clause to our SQL, and trim down the results to match the `gadgetuserprefs` columns:

```

WITH gadgetprefs AS (select gup.* from gadgetuserpreference gup JOIN portletconfiguration pc ON gup.
portletconfiguration=pc.id WHERE pc.gadget_xml~'createdvsresolved-gadget.xml'),
filterprefs AS (select * from gadgetprefs WHERE userprefkey='projectOrFilterId'),
cumulativeprefs AS (select * from gadgetprefs WHERE userprefkey='isCumulative'),
relevantprefs AS (select portletconfiguration, filterprefs.userprefvalue AS projectOrFilterId,
cumulativeprefs.userprefvalue AS isCumulative FROM filterprefs JOIN cumulativeprefs USING
(portletconfiguration)),
prefs AS (select portletconfiguration, projectOrFilterId, regexp_replace(projectOrFilterId, '-\d+', '') AS type,
regexp_replace(projectOrFilterId, '(filter|project)-', '') AS id, iscumulative FROM relevantprefs),
newvals AS (select nextval('prefid') AS ID,
portletconfiguration,
t.userprefkey,
CASE t.userprefkey
WHEN 'operation' THEN (CASE prefs.isCumulative WHEN
'true' THEN 'cumulative' ELSE 'count' END)
WHEN 'id' THEN prefs.id
WHEN 'name' THEN CASE type WHEN 'project' THEN (SELECT
pname FROM project WHERE id=prefs.id::integer) WHEN 'filter' THEN prefs.projectOrFilterId END
WHEN 'type' THEN prefs.type
END AS userprefvalue
FROM prefs,
VALUES ('name'), ('operation'), ('id'), ('type')) AS t(userprefkey)
SELECT * FROM newvals;

id      portletconfiguration    userprefkey    userprefvalue
12725          10801    name        filter-10601
12726          10801    operation   cumulative
12727          10801    id         10601
12728          10801    type        filter
12729          10803    name        filter-10601
12730          10803    operation   count
12731          10803    id         10601
12732          10803    type        filter
12733          10900    name        CrowdFlower
12734          10900    operation   cumulative
12735          10900    id         10800
12736          10900    type        project
(12 rows)

```

And there we have exactly what we want to INSERT:

```

WITH gadgetprefs AS (select gup.* from gadgetuserpreference gup JOIN portletconfiguration pc ON gup.portletconfiguration=pc.id WHERE pc.gadget_xml~'createdvsresolved-gadget.xml'),
      filterprefs AS (select * from gadgetprefs WHERE userprefkey='projectOrFilterId'),
      cumulativeprefs AS (select * from gadgetprefs WHERE userprefkey='isCumulative'),
      relevantprefs AS (select portletconfiguration, filterprefs.userprefvalue AS projectOrFilterId,
cumulativeprefs.userprefvalue AS isCumulative FROM filterprefs JOIN cumulativeprefs USING (portletconfiguration)),
      prefs AS (select portletconfiguration, projectOrFilterId, regexp_replace(projectOrFilterId, '-\d+', '') AS type, regexp_replace(projectOrFilterId, '(filter|project)-', '') AS id, iscumulative FROM relevantprefs),
      newvals AS (select nextval('prefid') AS ID,
                           portletconfiguration,
                           t.userprefkey,
                           CASE t.userprefkey
                               WHEN 'operation' THEN (CASE prefs.isCumulative WHEN
'true' THEN 'cumulative' ELSE 'count' END)
                               WHEN 'id' THEN prefs.id
                               WHEN 'name' THEN CASE type WHEN 'project' THEN (SELECT
pname FROM project WHERE id=prefs.id::integer) WHEN 'filter' THEN prefs.projectOrFilterId END
                               WHEN 'type' THEN prefs.type
                           END AS userprefvalue
                     FROM prefs,
                     (VALUES ('name'), ('operation'), ('id'), ('type')) AS t(userprefkey))
INSERT INTO gadgetuserpreference SELECT * FROM newvals;

INSERT 0 12
Time: 30.402 ms

```

Updating the sequence_value_item table

JIRA's database library (Ofbiz) has an odd way of tracking the maximum ID of a table. It has a table called `sequence_value_item` which stores the max ID of each table, rounded up to the nearest 100:

```

SELECT max(id) FROM gadgetuserpreference;

max
12711
(1 row)

SELECT * from sequence_value_item WHERE seq_name='GadgetUserPreference';

seq_name      seq_id
GadgetUserPreference 12800
(1 row)

```

So after manually inserting rows in a JIRA table, one must always update `sequence_value_item`. The new value can be derived from `max(id)` by a divide-then-round-up-then-multiply trick:

```

UPDATE sequence_value_item SET seq_id = (SELECT ceil(max(id)/100)*100 FROM gadgetuserpreference) WHERE
seq_name='GadgetUserPreference' RETURNING seq_id;

seq_id
12800
(1 row)

```

Shameless Plug

My business, Red Radish Consulting, offers a quarterly JIRA/Confluence upgrade service. The fix described here was derived on-the-fly for a client. Save yourself the hassle of dealing with exciting bugs like this, and [contact us](#) for a quote!