

## Arvados - Bug #6240

[API] "order" params should be rejected or used (not silently ignored) even when they reference columns missing from the "select" param

06/04/2015 05:07 AM - Tom Clegg

<b>Status:</b>	New	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assigned To:</b>		<b>% Done:</b>	0%
<b>Category:</b>	API	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Arvados Future Sprints		
<b>Description</b>			
Works:			
<pre>tomclegg@shell.4xphq:~\$ arv -s collection list --order 'created_at desc' --limit 2 4xphq-4zz18-dlgfut054qerwrz 4xphq-4zz18-cyfxpfi4hfd5u tomclegg@shell.4xphq:~\$ arv -s collection list --order 'created_at asc' --limit 2 4xphq-4zz18-0h10cbbqzuqx2ij 4xphq-4zz18-1nksjinjky3sja  tomclegg@shell.4xphq:~\$ arv -s collection list --select '["uuid","created_at"]' --order 'created_at desc' --limit 2 4xphq-4zz18-dlgfut054qerwrz 4xphq-4zz18-cyfxpfi4hfd5u tomclegg@shell.4xphq:~\$ arv -s collection list --select '["uuid","created_at"]' --order 'created_at asc' --limit 2 4xphq-4zz18-0h10cbbqzuqx2ij 4xphq-4zz18-1nksjinjky3sja</pre>			
Silently ignores given order:			
<pre>tomclegg@shell.4xphq:~\$ arv -s collection list --select '["uuid"]' --order 'created_at desc' --limit 2 4xphq-4zz18-004t28r3og3bodi 4xphq-4zz18-00jzlybalavvh5y tomclegg@shell.4xphq:~\$ arv -s collection list --select '["uuid"]' --order 'created_at asc' --limit 2 4xphq-4zz18-004t28r3og3bodi 4xphq-4zz18-00jzlybalavvh5y</pre>			

## History

### #1 - 06/04/2015 05:12 AM - Tom Clegg

- Project changed from Arvados Private to Arvados
- Description updated
- Category set to API
- Target version set to Bug Triage

Noticed during [#6074](#).

### #2 - 06/10/2015 01:54 PM - Tom Clegg

The easy fix (reject instead of ignoring) looks something like this, in [source:services/api/lib/load\\_param.rb](#)

```
if @select
  # Any ordering columns must be selected when doing select,
  # otherwise it is an SQL error, so filter out invaliding orderings.
-  @orders.select! { |o|
+  @orders.each { |o|
    # match select column against order array entry
-    @select.select { |s| /^#{table_name}.\#{s}( (asc|desc))?\$/.match o }.any?
+    if not @select.select { |s| /^#{table_name}.\#{s}( (asc|desc))?\$/.match o }.any?
```

```
+         raise ArgumentError.new("Cannot order on '#{s}' when column excluded by select param")
+     end
+ }
+ end
```

IMO it would be vastly preferable to add the given column to the list of columns to select (without adding it to the list of attributes to return to the client). That *might* involve changing more than 2 lines of code, though.

### **#3 - 08/11/2015 02:09 PM - Brett Smith**

- *Target version changed from Bug Triage to Arvados Future Sprints*

### **#4 - 02/17/2016 07:32 PM - Joshua Randall**

I just got caught by this. Definitely was not expecting the selected columns to have any bearing on the requested order. Not really understanding why this is not a simple thing to do... must be some difficulties with the Ruby ORM?