Nicer ActiveObjects tables for SQL queries

> This page constitutes random notes from my work day as an Atlassian product consultant, put up in the vague hope they might benefit others. Expect rambling, reference to unsolved problems, and plenty of stacktraces. **Check the date** as any information given is likely to be stale.

I spend plenty of time poking around in Jira databases. Something that has always mildy annoyed me is the proliferation of the `AO_` tables that plugins create:

```
redradish_jira=#
                                List of relations

 Schema                     Name                        Type        Owner

 public  AO_013613_ACTIVITY_SOURCE                    table     redradish_jira
 public  AO_013613_ACTIVITY_SOURCE_ID_seq             sequence  redradish_jira
 public  AO_013613_EXPENSE                            table     redradish_jira
 public  AO_013613_EXPENSE_ID_seq                     sequence  redradish_jira
 public  AO_013613_EXP_CATEGORY                       table     redradish_jira
 public  AO_013613_EXP_CATEGORY_ID_seq                sequence  redradish_jira
....

(1318 rows)
```

Of those 1318 tables (!?), 1116 begin with AO_.

I know these `AO_` tables are associated with plugins, but I have no idea (short of Google searching) which plugin generated which tables.

Furthermore every search involving these tables requires quoting the table name *and column names*, because they inexplicably needed to be uppercase.

To make life easier, I've create a project that automatically creates nicely named views on top of the AO tables:

https://github.com/redradishtech/activeobject_views

I can now see my Jira database contains tables from 56 plugins:

```
redradish_jira=# \dn
            List of schemas

        Name             Owner

 agile                redradish_jira
 agilepoker           redradish_jira
 api                  redradish_jira
 atlnotifications     redradish_jira
 automation           redradish_jira
 backbonesync         redradish_jira
 betterpdf            redradish_jira
 configmanagercore    redradish_jira
 dvcs                 redradish_jira
 dynaforms            redradish_jira
 groovy               redradish_jira
 hipchat              redradish_jira
 inform               redradish_jira
 issueactionstodo     redradish_jira
 jeditor              redradish_jira
 jeti                 redradish_jira
 jiradevint           redradish_jira
 jiradiagnostics      redradish_jira
 jiraemailprocessor   redradish_jira
 jirainvite           redradish_jira
 jiramail             redradish_jira
 jiramobile           redradish_jira
 jiraoptimizer        redradish_jira
 jiraprojects         redradish_jira
 jiratranstrigger     redradish_jira
 jirawebhooks         redradish_jira
 jmcf                 redradish_jira
 jqlt                 redradish_jira
 jsd                  redradish_jira
 jsu                  redradish_jira
 kepler               redradish_jira
 labelmanager         redradish_jira
 navlinks             redradish_jira
 portfolio            redradish_jira
 portfolioteam        redradish_jira
 projtemplates        redradish_jira
 public               postgres
 queries              redradish_jira
 saml                 redradish_jira
 securelogin          redradish_jira
 servicerocket        redradish_jira
 sil                  redradish_jira
 simpletasklists      redradish_jira
 simplifiedplanner    redradish_jira
 startwork            redradish_jira
 streams              redradish_jira
 structure            redradish_jira
 support              redradish_jira
 tempo                redradish_jira
 tempo2               redradish_jira
 tempoplanner         redradish_jira
 timedpromise         redradish_jira
 webhooks             redradish_jira
 whitelist            redradish_jira
 workhours            redradish_jira
 xporter              redradish_jira

(56 rows)
```

If I want to see tables for a specific plugin, I can limit `psql` to just the plugin's schema:

```
redradish_jira=# set search_path=tempo;
SET
redradish_jira=# \d
                   List of relations

 Schema         Name          Type      Owner

 tempo   account_v1           view  redradish_jira
 tempo   activity_source      view  redradish_jira
 tempo   budget               view  redradish_jira
 tempo   category_type        view  redradish_jira
 tempo   category_v1          view  redradish_jira
 tempo   customer_permission  view  redradish_jira
 tempo   customer_v1          view  redradish_jira
 tempo   exp_category         view  redradish_jira
 tempo   expense              view  redradish_jira
 tempo   favorites            view  redradish_jira
 tempo   hd_scheme            view  redradish_jira
 tempo   hd_scheme_day        view  redradish_jira
 tempo   hd_scheme_member     view  redradish_jira
 tempo   internal_issue       view  redradish_jira
 tempo   link_v1              view  redradish_jira
 tempo   location             view  redradish_jira
 tempo   membership           view  redradish_jira
 tempo   permission_group     view  redradish_jira
 tempo   pgp_group            view  redradish_jira
 tempo   pgp_group_to_team    view  redradish_jira
 tempo   pgp_group_v2         view  redradish_jira
 tempo   pgp_member           view  redradish_jira
 tempo   pgp_member_v2        view  redradish_jira
 tempo   pgp_permission       view  redradish_jira
 tempo   pgp_permission_v2    view  redradish_jira
 tempo   program              view  redradish_jira
 tempo   project_config       view  redradish_jira
 tempo   rate                 view  redradish_jira
 tempo   rate_table           view  redradish_jira
 tempo   saved_report         view  redradish_jira
 tempo   saved_report_v2      view  redradish_jira
 tempo   team                 view  redradish_jira
 tempo   team_link            view  redradish_jira
 tempo   team_member          view  redradish_jira
 tempo   team_member_v2       view  redradish_jira
 tempo   team_permission      view  redradish_jira
 tempo   team_role            view  redradish_jira
 tempo   team_to_member       view  redradish_jira
 tempo   team_v2              view  redradish_jira
 tempo   user_index           view  redradish_jira
 tempo   user_location        view  redradish_jira
 tempo   wa_sl_value          view  redradish_jira
 tempo   wa_value             view  redradish_jira
 tempo   wl_scheme            view  redradish_jira
 tempo   wl_scheme_day        view  redradish_jira
 tempo   wl_scheme_member     view  redradish_jira
 tempo   work_attribute       view  redradish_jira

(47 rows)
```

I hope this helps fellow SQL hackers out there!