PMT Reference

Contents

pmt_activities_by_tax

Description

Filter activities by classification reporting by a specified taxonomy.

Parameter(s)

1. tax_id (integer) – Required. Taxonomy_id to classify returned activities.
2. data_group (integer) - Optional. Restrict data to a single data group.
3. country_ids (character varying) – Optional. Restrict data to country(ies).

Result

1. a_id (integer) – activity_id.
2. title (character varying) – title of activity.
3. c_ids (text) – comma separated list of classification_ids associated to activity from taxonomy specified by tax_id.

Example(s)

- Activities by Sector (taxonomy_id:15) from World Bank data group (classification_id:772):

```
select * from pmt_activities_by_tax(15, 772, '');
```

a_id	Title	c_ids
32757	"SA Trade & Trans Facilitation Project"	"575,623,624"
32759	"3A-Southern Afr Power Mrkt APL 1 (FY04)"	"637,717"
32765	"3A-CEMAC Regional Institutions Support"	"651,652,653"
…	…	…

pmt_activity_listview

Description

Filter activity and organization by classification, organization and date range, reporting a specified taxonomy with pagination.

Parameter(s)

1. tax_id (integer) – Required. Taxonomy_id to classify returned activities.
2. classification_ids (character varying) – Optional. Restrict data to classification(s).
3. organization_ids (character varying) – Optional. Restrict data to organization(s)
4. unassigned_tax_ids (character varying) – Optional. Include data without assignments to specified taxonomy(ies).
5. orderby (text) – Optional. Order by result columns.
6. limit_rec (integer) – Optional. Maximum number of returned records.
7. offset_rec (integer) – Optional. Number of records to offset the return records by.

Result

Json with the following:

1. a_id (integer) – activity_id.

2. a_name (character varying) – title of activity.
3. a_desc (character varying) – description of activity.
4. a_date1 (date) – start date of activity.
5. o_id (integer) – organization_id.
6. o_name (character varying) – name of organization.
7. r_name (character varying) – classification name of classification related to activity from the taxonomy specified in tax_id.

Example(s)

- Activity & Organization by Sector (taxonomy_id:15) in Nepal (classification_id:771) and organization participant is Funding (classification_id:496). Order the data by activity title (a_name). Limit the number of rows returned to 10 with an offset of 100:

```
select * from  pmt_activity_listview(15, '771,496', '', '','a_name', 10, 100);

{
"a_id":16664,
"a_name":"Action for Social Inclusion of Children Affected by Armed Conflict in Nepal
(ASIC)",
"a_desc":"Children and families affected by Armed conflict got support",
"a_date1":"2010-01-01",
"o_id":389,
"o_name":"European Union",
"r_name":"Servicios sociales o de bienestar"
}
```

pmt_activity_listview_ct

Description

Total record count for pmt_activity_listview. Sending the same filter parameters as pmt_activity_listview will provide the total record count. Used to assist with pagination.

Parameter(s)

1. classification_ids (character varying) – Optional. Restrict data to classification(s).
2. organization_ids (character varying) – Optional. Restrict data to organization(s)
3. unassigned_tax_ids (character varying) – Optional. Include data without assignments to specified taxonomy(ies).

Result

Integer of number of records.

Example(s)

- Number of Activity & Organization records in Nepal (classification_id:771) and organization participant is Funding (classification_id:496):

```
select * from  pmt_activity_listview_ct('771,496', '', '');

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```

pmt_bytea_import

Description

Converts text into bytea. Used in combination with PostgreSQL convert_from() to import xml documents as an xml data type. (Jack Douglas)[1]

Parameter(s)

1. (text) – any text, or document.

Result

Text as bytea.

Example(s)

- Convert utf-8 formatted xml file in the temp directory called file.xml into the xml data type:

```
convert_from(pmt_bytea_import('/temp/file.xml'), 'utf-8')::xml
```

pmt_category_root

Description

A taxonomy can have a taxonomy category and a taxonomy category can have a taxonomy category. This function returns the base or root taxonomy_id of any taxonomy.

Parameter(s)

1. id (integer) – Required. The category taxonomy.
2. data_group (integer) – Optional. The data group classification id.

Result

Integer of root taxonomy_id.

Example(s)

- Return the root taxonomy for the PMT Sector Category (taxonomy_id:16) taxonomy category:

```
select pmt_category_root(16, null);
```

15

pmt_countries

Description

Filter countries by classifications.

Parameter(s)

1. classification_ids (character varying) – Optional. Restrict data to classification(s).

[1] Douglas, Jack. "SQL to read XML from file into PostgreSQL database." StackExchange Database Administrators Nov 2011. Web. 02 Aug 2013 http://dba.stackexchange.com/questions/8172/sql-to-read-xml-from-file-into-postgresql-database

Result

Json with the following:

1. c_id (integer) – classification_id.
2. name (character varying(255)) – name of country.
3. bounds (json object) – bounding box of country.

Example(s)

- Country for Afghanistan:

```
select * from pmt_countries('24');
```


```
{
"c_id":24,
"name":"afghanistan",
"bounds":"{
        \"type\":\"Polygon\",
        \"coordinates\":[[[60.4758911132812,29.3773193359375],[60.4758911132812,38.49072
        265625],[74.889892578125,38.49072265625],[74.889892578125,29.3773193359375],[60.
        4758911132812,29.3773193359375]]]
        }
}
```


pmt_data_groups

Description

Returns data groups.

Parameter(s)

None.

Result

1. a_id (integer) – activity_id.
2. title (character varying) – title of activity.
3. c_ids (text) – comma separated list of classification_ids associated to activity from taxonomy specified by tax_id.

Example(s)

- Get data groups:

```
select * from pmt_data_groups();
```

c_id	Name
768	"AFDB"
769	"Bolivia"
770	"Malawi"
…	…

pmt_filter_locations

Description

Filter locations by classification, organization and date range, reporting a specified taxonomy.

Parameter(s)

1. tax_id (integer) – Required. Taxonomy_id to classify returned locations.
2. classification_ids (character varying) – Optional. Restrict data to classification(s).
3. organization_ids (character varying) – Optional. Restrict data to organization(s)
4. unassigned_tax_ids (character varying) – Optional. Include data without assignments to specified taxonomy(ies).
5. start_date (date) – Optional. Restrict data to a data range. Used with end_date parameter.
6. end_date (date) – Optional. Restrict data to a data range. Used with start_date parameter.

Result

Ordered by georef.

1. l_id (integer) – Location_id.
2. g_id (character varying(20)) – geo-reference format of the location.
3. r_ids (text) – comma separated list of classification_ids associated to location from taxonomy specified by tax_id.

Example(s)

- Locations by Focus Crop taxonomy (taxonomy_id:22) where there are Legumes (classification_id:816) or no Focus Crop and BMGF (organization_id:13)is a participant:

```
select * from pmt_filter_locations(22, '816', '13', '22', null, null);
```

l_id	g_id	r_ids
2690	"HDKM37051601"	"816,818,819,820,822,841"
2710	"HDLM27305730"	"816,818,819,820,822,841"
4674	"HDLM27305730"	"816,818,819,820,822,841"
…	…	…

pmt_filter_orgs

Description

Filter locations by classification, organization and date range, reporting associated organization(s).

Parameter(s)

1. classification_ids (character varying) – Optional. Restrict data to classification(s).
2. organization_ids (character varying) – Optional. Restrict data to organization(s)
3. unassigned_tax_ids (character varying) – Optional. Include data without assignments to specified taxonomy(ies).
4. start_date (date) – Optional. Restrict data to a data range. Used with end_date parameter.
5. end_date (date) – Optional. Restrict data to a data range. Used with start_date parameter.

Result

Ordered by georef.

1. l_id (integer) – Location_id.
2. g_id (character varying(20)) – geo-reference format of the location.
3. r_ids (text) – comma separated list of organization_ids related to location.

Example(s)

- Locations by organization for World Bank data group (classification_id:722) in the country of Bolivia (classification_id:50):

```
select * from pmt_filter_orgs('772,50', '', '', null, null);
```

l_id	g_id	r_ids
35814	"HEFN40004660"	"365,443,939"
35919	"HEFP49605860"	"365,443,941"
35539	"HEFP55005100"	"365,443,933"
…	…	…

pmt_filter_projects

Description

Filter projects by classification, organization and date range.

Parameter(s)

1. classification_ids (character varying) – Optional. Restrict data to classification(s).
2. organization_ids (character varying) – Optional. Restrict data to organization(s)
3. unassigned_tax_ids (character varying) – Optional. Include data without assignments to specified taxonomy(ies).
4. start_date (date) – Optional. Restrict data to a data range. Used with end_date parameter.
5. end_date (date) – Optional. Restrict data to a data range. Used with start_date parameter.

Result

Ordered by project_id.

1. p_id (integer) – project_id.
2. a_ids (text) – comma separated list of filtered activity_ids associated to the project.

Example(s)

- Projects for AGRA data group (classification_id:769) where AGRA (organization_id:27) is a participant with activities between Jan 1, 2010 to Jan 1, 2012:

```
select * from pmt_filter_projects( '769', '27', '', '1-1-2010', '1-1-2012');
```

p_id	a_ids
661	"13053,13195,13238,13261"
662	"13034,13209"
663	"13147,13151"
…	…

pmt_isdate

Description

Validates a text value for date data type

Parameter(s)

1. (text) – any text value to be tested.

Result

True or false.

Example(s)

```
select pmt_isdate('14-1-2012');
FALSE

select pmt_isdate('2012-1-13');
TRUE
```

pmt_isnumeric

Description

Validates a text value for numeric data type

Parameter(s)

1. (text) – any text value to be tested.

Result

True or false.

Example(s)

```
select pmt_isnumeric('');
FALSE

select pmt_isnumeric(null);
TRUE
```

pmt_locations_by_org

Description

Filter locations by classification, organization and date range, reporting associated organization(s).

Parameter(s)

1. class_id (integer) – Optional. classification_id to restrict organizations by.
2. data_group (integer) – Optional. Restrict data to a single data group.
3. country_ids (character varying) – Optional. Restrict data to country(ies).

Result

Ordered by georef.

1. l_id (integer) – Location_id.
2. x (integer) – x coordinate.
3. y (integer) – y coordinate.
4. r_ids (text) – comma separated list of organization_ids associated to location.

Example(s)

- Locations by organization for World Bank data group (classification_id:772) in the country of Bolivia (classification_id:50):

```
select * from pmt_locations_by_org (null, 772, '50');
```

l_id	x	y	r_ids
35814	-7718151	-1946061	"365,443,939"
35919	-7699599	-1806653	"365,443,941"
35539	-7690321	-1822100	"365,443,933"
…	…	…	…

pmt_locations_by_tax

Description

Filter locations by classification, organization and date range, reporting a specified taxonomy.

Parameter(s)

1. tax_id (integer) – Required. Taxonomy_id to classify returned locations.
2. data_group (integer) - Optional. Restrict data to a single data group.
3. country_ids (character varying) – Optional. Restrict data to country(ies).

Result

Ordered by georef.

1. l_id (integer) – Location_id.
2. x (integer) – x coordinate.
3. y (integer) – y coordinate.
4. r_ids (text) – comma separated list of classification_ids associated to location from taxonomy specified by tax_id.

Example(s)

- Locations by Sector taxonomy (taxonomy_id:10) for World Bank data group (classification_id:772) in the country of Bolivia (classification_id:50):

```
select * from pmt_locations_by_tax (10, 772, '50');
```

l_id	x	y	r_ids
35814	-7718151	-1946061	"495,496,497"
35919	-7699599	-1806653	"495,496,497"
35539	-7690321	-1822100	"495,496,497"
…	…	…	…

pmt_org_inuse

Description

Organizations participating in projects or/and activities.

Parameter(s)

1. classification_ids (character varying) – Optional. Restrict data to classification(s).

Result

Ordered by most used. Json with the following:

1. o_id (integer) – organization_id.
2. name (character varying(255)) – name of organization.

Example(s)

- Organizations participating in activities in the AFDB data group (classification_id:768) in Cameroon (classification_id:62):

```
select * from pmt_org_inuse('768,62');

{
"o_id":1,
"name":"AfDB"
}
```

pmt_project_listview

Description

Filter project, activity and organization participation by classification, organization and date range, reporting a specified taxonomy with pagination.

Parameter(s)

1. tax_id (integer) – Required. Taxonomy_id to classify returned projects.
2. classification_ids (character varying) – Optional. Restrict data to classification(s).
3. organization_ids (character varying) – Optional. Restrict data to organization(s)
4. unassigned_tax_ids (character varying) – Optional. Include data without assignments to specified taxonomy(ies).
5. orderby (text) – Optional. Order by result columns.
6. limit_rec (integer) – Optional. Maximum number of returned records.
7. offset_rec (integer) – Optional. Number of records to offset the return records by.

Result

Json with the following:

1. p_id (integer) – project_id.
2. title (character varying) – title of project.
3. a_ids (integer array) – list of activity_ids for project.

4. org (character varying) – accountable organization name.
5. f_orgs (character varying) – funding organization name(s).
6. c_name (character varying) – classification name of classification related to project from the taxonomy specified in tax_id.

Example(s)

- BMGF data group (classification_id:768) projects by Initiative (taxonomy_id:23). Order the data by project title (title). Limit the number of rows returned to 10 with an offset of 20 records:

```
select * from  pmt_project_listview(23, '768', '', '','title', 10, 20);

{
"p_id":615,
"title":"Community knowledge workers for Ugandan agriculture",
"a_ids":[
       11946,11947,11948,11949,11950,11951,11952,11953,11954,11955,11956,11957,11958,11
       959,11960,11961,11962,11963,11964,11965,11966,11967,11968,11969,11970,11971
       ],
"org":"Grameen Foundation USA",
"f_orgs":"BMGF",
"c_name":"Access & Markets"
}…
```

pmt_project_listview_ct

Description

Total record count for pmt_project_listview. Sending the same filter parameters as pmt_project_listview will provide the total record count. Used to assist with pagination.

Parameter(s)

1. classification_ids (character varying) – Optional. Restrict data to classification(s).
2. organization_ids (character varying) – Optional. Restrict data to organization(s)
3. unassigned_tax_ids (character varying) – Optional. Include data without assignments to specified taxonomy(ies).

Result

Integer of number of records.

Example(s)

- Number of Project records for BMGF data group (classification_id:768):

```
select * from  pmt_project_listview_ct('768', '', '');

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```

pmt_tax_inuse

Description

Taxonomy and associated classifications that are in use by any project, activity or location.

Parameter(s)

1. data_group_id (integer) – Optional. Restrict data to data group.
2. taxonomy_ids (character varying) – Optional. Restrict data to taxonomy(ies).
3. country_ids (character varying) – Optional. Restrict data to country(ies).

Result

Ordered by most used. Json with the following:

1. t_id (integer) – taxonomy_id.
2. name (character varying(255)) – name of taxonomy.
3. Is_cat (boolean) – is/not a taxonomy category.
4. cat_id (integer) – taxonomy_id of the taxonomy category for this taxonomy.
5. classifications (object) – classifications in use for this taxonomy.
    a. c_id (integer) – classification_id.
    b. cat_id (integer) – classification_id for the category classification.
    c. name (character varying(255)) – the name of the classification.

Example(s)

- Taxonomy/classifications for the World Bank data group (classification_id:772) in Bolivia (classification_id:50):

```
select * from pmt_tax_inuse(772, '', '50');

...{
"t_id":15,
"name":"Sector",
"is_cat":false,
"cat_id":14,
"classifications":
[
        {
        "c_id":731,
        "cat_id":552,
        "name":"Desarrollo rural"
        },
        {
        "c_id":636,
        "cat_id":540,
        "name":"Power generation/renewable sources"
        },
        ...
]
}
{
"t_id":14,
"name":"Sector Category",
"is_cat":true,
"cat_id":16,
"classifications":
[
        {
        "c_id":552,
        "cat_id":765,
        "name":"Other multisector"
```

```
        },
        ...
        {
        "c_id":540,
        "cat_id":764,
        "name":"ENERGY GENERATION AND SUPPLY"},
        ...
]
}
```

pmt_stat_counts

Description

Statistics function providing filterable counts for project, activity, implementing organizations and districts.

Parameter(s)

1. classification_ids (character varying) – Optional. Restrict data to classification(s).
2. organization_ids (character varying) – Optional. Restrict data to organization(s)
3. unassigned_tax_ids (character varying) – Optional. Include data without assignments to specified taxonomy(ies).
4. start_date (date) – Optional. Restrict data to a data range. Used with end_date parameter.
5. end_date (date) – Optional. Restrict data to a data range. Used with start_date parameter.

Result

Json with the following:

1. p_ct (integer) – project count.
2. a_ct (integer) – activity count.
3. o_ct (integer) – implementing organization count.
4. d_ct (integer) – district count.

Example(s)

- Statistic counts for BMGF data group (classification_id:768):

```
SELECT * FROM pmt_stat_counts('768', '', '', null, null);

{
"p_ct":80,
"a_ct":6112,
"o_ct":602,
"d_ct":1405
}
```

pmt_stat_project_by_tax

Description

Statistics function providing filterable counts for project by taxonomy

Parameter(s)

1. tax_id (integer) – Required. Taxonomy_id to classify returned project counts.
2. classification_ids (character varying) – Optional. Restrict data to classification(s).
3. organization_ids (character varying) – Optional. Restrict data to organization(s)
4. unassigned_tax_ids (character varying) – Optional. Include data without assignments to specified taxonomy(ies).
5. start_date (date) – Optional. Restrict data to a data range. Used with end_date parameter.
6. end_date (date) – Optional. Restrict data to a data range. Used with start_date parameter.

Result

Json with the following:

1. c_id (integer) – classification_id.
2. p_ct (integer) – project count.

Example(s)

- Project counts for BMGF data group (classification_id:768) by Initiative taxonomy (taxonomy_id:23):

```
SELECT * FROM pmt_stat_project_by_tax(23, '768', '', '', null, null);

{
  {"c_id":823,"p_ct":34}
  {"c_id":824,"p_ct":13}
  {"c_id":829,"p_ct":2}
  {"c_id":831,"p_ct":23}
  {"c_id":839,"p_ct":8}
}
```

pmt_stat_activity_by_tax

Description

Statistics function providing filterable counts for activity by taxonomy.

Parameter(s)

1. tax_id (integer) – Required. Taxonomy_id to classify returned activity counts.
2. classification_ids (character varying) – Optional. Restrict data to classification(s).
3. organization_ids (character varying) – Optional. Restrict data to organization(s)
4. unassigned_tax_ids (character varying) – Optional. Include data without assignments to specified taxonomy(ies).
5. start_date (date) – Optional. Restrict data to a data range. Used with end_date parameter.
6. end_date (date) – Optional. Restrict data to a data range. Used with start_date parameter.

Result

Json with the following:

1. c_id (integer) – classification_id.

2. a_ct (integer) – activity count.

Example(s)

- Activity counts for BMGF data group (classification_id:768) by Sub-Initiative taxonomy (taxonomy_id:17):

```
SELECT * FROM pmt_stat_activity_by_tax(17, '768', '', '17', null, null);

{
   {"c_id":771,"a_ct":220}
   {"c_id":773,"a_ct":297}
   {"c_id":774,"a_ct":155}
   {"c_id":778,"a_ct":18}
   {"c_id":779,"a_ct":16}
   {"c_id":780,"a_ct":1060}
   {"c_id":783,"a_ct":378}
   {"c_id":784,"a_ct":432}
   {"c_id":786,"a_ct":378}
   {"c_id":788,"a_ct":2337}
   {"c_id":791,"a_ct":20}
   {"c_id":null,"a_ct":345}
}
```

pmt_stat_orgs_by_activity

Description

Statistics function providing filterable counts for TOP TEN implementing organizations by activity classified by taxonomy.

Parameter(s)

1. tax_id (integer) – Required. Taxonomy_id to classify returned activity counts.
2. classification_ids (character varying) – Optional. Restrict data to classification(s).
3. organization_ids (character varying) – Optional. Restrict data to organization(s)
4. unassigned_tax_ids (character varying) – Optional. Include data without assignments to specified taxonomy(ies).
5. start_date (date) – Optional. Restrict data to a data range. Used with end_date parameter.
6. end_date (date) – Optional. Restrict data to a data range. Used with start_date parameter.

Result

Json with the following:

1. o_id (integer) – organization_id.
2. a_ct (integer) – activity count.
3. a_by_tax (json object):
    a. c_id (integer) – classification id.
    b. a_ct (integer) – number of activities with classification id in a_ct above.

Example(s)

- Top ten implementing organizations by activity counts for BMGF data group (classification_id:768) by Initiative taxonomy (taxonomy_id:23):

```
SELECT * FROM pmt_stat_orgs_by_activity(23, '768', '', '', null, null);
```

```
{
   "o_id":334,
   "a_ct":646,
   "a_by_tax":[
                {
                "c_id":823,
                "a_ct":625
                }
                ,{
                "c_id":831,
                "a_ct":21
                }
                ]
}
…
```