# Title: Technical details regarding sharable filter views

**Intro:**

Building more sharing options for filter views where user can share to specific set of users based on his choice.

more information regarding the spec is mentioned in the below Jira

**Jira:**[**http://jira.freshworks.com/browse/FSALES-2500**](https://www.google.com/url?q=http://jira.freshworks.com/browse/FSALES-2500&sa=D&ust=1519113009757000&usg=AFQjCNEXtjwske-9w6XAR3gi02blQaZ5gw)

**Database schema:**

**Permission Table:**

Permission table has permission\_id and scope(Integer) as fields where as scope can be private/public/Selected users/territories.

Using this table makes public and private scope easily accessible as we can avoid another query to the table 'Sharable view resolver' and also it reduces the entries into 'sharable view resolver' table as it is normalised.

0- private

1- public

2- users

**permission\_scopes(new table addition)**

|  |  |  |  |
| --- | --- | --- | --- |
| id | permission\_id | scope | account\_id |
| 1 | 12 | 2 | 1 |
| 2 | 15 | 1 | 1 |
| 3 | 15 | 2 | 1 |

**Sharable View resolver Table:**

This table has entity\_name(Eg: 'filter\_view', 'report\_view'), entity\_id( id of that particular view in that entity ), permission\_id( id of the particular scope ), access\_id( this has the IDs of a particular scope ), account\_id

Using this table makes it scalable as we can bring in roles and it will also be scalable if we bring sharable views to customer reports, email templates.

**permission\_details(new table addition)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | entity\_name | entity\_id | permission\_id | object\_id | account\_id |
| 23 | LeadCustomFilter | 2 | 12 | 2 | 1 |
| 24 | CustomReport | 3 | 15 | 1 | 1 |
| 25 | CustomReport | 3 | 15 | 2 | 1 |

**object\_id ?**

→ if the scope is user then object id will be user id and if scope is territory object id will be territory\_id and similarly for roles it will be role id

**Adding column to Filters/reports..:**  
will\_filter\_filters/custom\_reports(or any other table) to use sharable views to any new entity we have to add a permission\_id column and will be removing is\_public.

**will\_filter\_filters(new column addition: permission\_id)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | account\_id | name | model\_class\_name | data | user\_id | is\_default | type | created\_at | updated\_at | permission\_id |
| 1 | 1 | My Leads | Lead | hash | -1 | 1 | LeadCustomFilter |  |  | 12 |
|  |  |  |  |  |  |  |  |  |  |  |

**SQL Queries:**

**For Selected Users:**

1. Select \* from will\_filter\_filters where account\_id = current\_account.id
2. Select scope from permission\_access where permission\_access\_id = permission\_id
3. Select \* from from sharable\_view\_resolver where account\_id = current\_account.id and entity\_name = '?' and entity\_id = ? and permission\_id=? and access\_id = current\_user.id
4. **For Private and Public scope can be resolved using first two queries.**