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# Filr Reporting

Useful SQL Statements

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# SQL Basics

# SQL Basics

What is SQL?

       SQL stands for Structured Query Language

       SQL is a standard language for accessing and manipulating databases.

       SQL became a standard of the ANSI in 1986 and of the ISO in 1987

What can SQL do?

       Retrieve data from a database and execute queries against a database

       Insert, update or delete records in/from a database

       Create new databases or create new tables, stored procedures and views  in a database

       Set permissions on tables, procedures, and views

# Filr Background Database

PostgreSQL

      phpPgAdmin included on Filr appliance/database appliance

      Do you remember the password?

      Use role filr

If you are using MS SQL or Maria/MySQL

      You will need credentials to access

      The SQL statements may be slightly different from the PostgreSQL

If you are using MySQL and wish to move to PostgreSQL

      There is a script to migrate to PostgreSQl

# PostgreSQL

Uses port 5432

      This is open on Postgres appliance firewall

      Blocked on Single Server instalation so you need to open the firewall

            Run sh /opt/novell/filr_config/pgRemoteAccess.sh <AA_ip_address/nw_mask>

            If no IP is specified, access is enabled for all servers (0.0.0.0/0)

            Or edit /vastorage/postgres/conf/vabase-pg_hba.conf manually

Allow all connections

| host | database | user | address | auth-method |
|------|----------|------|---------|-------------|
| host | filr | filr | 192.168.1.0/24 | md5 |
| host | all | all | 0.0.0.0/0 | md5 |

# Run a Query from the Command Line

pgAdmin (different os versions)

Command line

```
psql -U filr -d filr -c 'SELECT * FROM ss_principals'
```

```
psql -U filr -d filr -c 'SELECT name FROM ss_principals'
```

```
psql -U filr -d filr -c 'SELECT name FROM ss_principals WHERE deleted=false'
```

# PostgreSQL - phpPgAdmin

Access virtual appliance https://server:9443

*Other database access tools*
> *HeidiSQL, DBreaver,*
>
> *FlySpeedSQLQuery and others*

Access database
> Filr:<password>
>
> Or postgres
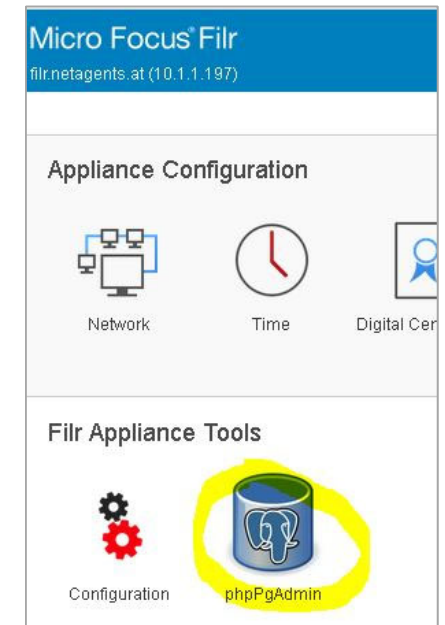
# Most Important SQL Commands

SQL is a Standard – But …

      Although SQL is an ANSI/ISO standard, there are different versions of the SQL Language

      They all support at least the major commands in a similar manner

Some Important SQL Commands

      `SELECT` *column1, column2, ...*`FROM` *table_name* `WHERE` *condition*;

      `UPDATE` *table_name* `SET` *column1 = value1, column2 = value2, ...* `WHERE` *condition*;

      `DELETE FROM` *table_name* `WHERE` *condition*;

      `JOIN` – combines rows from two or more tables, based on a related column between them

# phpPgAdmin

User filr

Password ?

# Ooops – so many tables …

# Filr - Background

Origin – Vibe/Teaming: see table names

PostgreSQL (default)
But works in other SQL environments too

       MySQL

       Maria

       MS SQL

phpPGAdmin is used in the examples

# Filr Database Tables

User Management

        ss_ldapconnectionconfig

                LDAP configuration

        ss_principals

                Users and groups

        ss_principalsmembership

                Group membership

Zone Management

        ss_zoneinfo – zoneid, zonename, virtualhost

        ss_zoneconfig – Admin Console settings

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# Filr Database Tables

Storage

ss_resourcedriver – Netfolder Server configuration

ss_netfolderconfig – Netfolder configuration

ss_forums – Folders known internally as binders

ss_folderentries – Files

ss_attachments – Files

Sharing

ss_shareitems

ss_shareaccessinfo

ss_shareaccessnotificationtokens

ss_sharingaudit

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# Filr Database Tables

Auditing

      ss_basicaudit

      ss_loginaudit

      ss_sharingaudit

      ss_cefevents

System Info

      ssqrtz_cron_trigger

      ss_indexingjournal

      ss_advancedauthenticationconfig

      ss_mobiledevice

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# Sample Queries

# First Try – `ss_principals`

View contents of a table

       Select * from table-name;

       SELECT * FROM "public"."ss_principals";

Returns all rows and columns from a table

# Users/Groups – not deleted

SELECT * FROM "public"."ss_principals" WHERE <mark>not deleted</mark>;

| Actions | | id | type | lockversion | zoneid | workspaceid | internalid | deleted | disabled | logversion | emailaddress | name | foreignna |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | Delete | 2 | group | 1 | 1 | NULL | 402883b90d0de1f3010d0df5582b0006 | FALSE | FALSE | 0 | NULL | allusers | allusers |
| Edit | Delete | 3 | group | 1 | 1 | NULL | 402883b90d0de1f3010d0df5582b0022 | FALSE | FALSE | 0 | NULL | allextusers | allextusers |
| Edit | Delete | 4 | applicationGroup | 1 | 1 | NULL | 402883b90d0de1f3010d0df5582b0014 | FALSE | FALSE | 0 | NULL | allapplications | allapplications |
| Edit | Delete | 5 | user | 0 | 1 | NULL | 402883b90d0de1f3010d0df5582b0008 | FALSE | FALSE | 0 | NULL | _postingagent | _postingagent |
| Edit | Delete | 6 | user | 0 | 1 | NULL | 402883b90d0de1f3010d0df5582b0012 | FALSE | FALSE | 0 | NULL | _jobprocessingagent | _jobprocessingagent |
| Edit | Delete | 7 | user | 0 | 1 | NULL | 402883b90d0de1f3010d0df5582b001d | FALSE | FALSE | 0 | NULL | _synchronizationagent | _synchronizationage |
| Edit | Delete | 8 | user | 0 | 1 | NULL | 402883b90d0de1f3010d0df5582b001e | FALSE | FALSE | 0 | NULL | _filesyncagent | _filesyncagent |
| Edit | Delete | 9 | user | 1 | 1 | 40 | 402883b90d0de1f3010d0df5582b0013 | FALSE | FALSE | 0 | NULL | guest | guest |
| Edit | Delete | 1 | user | 8 | 1 | 41 | 402883b90d0de1f3010d0df5582b000b | FALSE | FALSE | 1 | NULL | admin | admin |
| Edit | Delete | 50 | user | 0 | 1 | NULL | NULL | FALSE | FALSE | 1 | louis.armstrong@demo.com | larmstrong | cn=larmstrong,ou=us |
| Edit | Delete | 48 | user | 12 | 1 | 1789 | NULL | FALSE | FALSE | 2 | albert.einstein@demo.com | aeinstein | cn=aeinstein,ou=use |
| Edit | Delete | 49 | user | 4 | 1 | 1795 | NULL | FALSE | FALSE | 2 | charles.chaplin@demo.com | cchaplin | cn=cchaplin,ou=user |
| Edit | Delete | 51 | user | 0 | 1 | NULL | NULL | FALSE | FALSE | 1 | steve.jobs@demo.com | sjobs | cn=sjobs,ou=users,o= |
| Edit | Delete | 46 | group | 0 | 1 | NULL | NULL | FALSE | FALSE | 1 | NULL | o=oh | o=oh |
| Edit | Delete | 47 | | 0 | 1 | NULL | NULL | FALSE | FALSE | 1 | NULL | | |

# Only Users – not deleted

SELECT * FROM "public"."ss_principals" WHERE not deleted AND type = 'user';

| Actions | | id | type | lockversion | zoneid | workspaceid | internalid | deleted | disabled | logversion | emailaddress | name |
|---------|---|----|------|-------------|--------|-------------|------------|---------|----------|------------|--------------|------|
| Edit | Delete | 5 | user | 0 | 1 | NULL | 402883b90d0de1f3010d0df5582b0008 | FALSE | FALSE | 0 | NULL | _postingagent |
| Edit | Delete | 6 | user | 0 | 1 | NULL | 402883b90d0de1f3010d0df5582b0012 | FALSE | FALSE | 0 | NULL | _jobprocessingagent |
| Edit | Delete | 7 | user | 0 | 1 | NULL | 402883b90d0de1f3010d0df5582b001d | FALSE | FALSE | 0 | NULL | _synchronizationagen |
| Edit | Delete | 8 | user | 0 | 1 | NULL | 402883b90d0de1f3010d0df5582b001e | FALSE | FALSE | 0 | NULL | _filesyncagent |
| Edit | Delete | 9 | user | 1 | 1 | 40 | 402883b90d0de1f3010d0df5582b0013 | FALSE | FALSE | 0 | NULL | guest |
| Edit | Delete | 1 | user | 8 | 1 | 41 | 402883b90d0de1f3010d0df5582b000b | FALSE | FALSE | 1 | NULL | admin |
| Edit | Delete | 50 | user | 0 | 1 | NULL | NULL | FALSE | FALSE | 1 | louis.armstrong@demo.com | larmstrong |
| Edit | Delete | 48 | user | 12 | 1 | 1789 | NULL | FALSE | FALSE | 2 | albert.einstein@demo.com | aeinstein |
| Edit | Delete | 49 | user | 4 | 1 | 1795 | NULL | FALSE | FALSE | 2 | charles.chaplin@demo.com | cchaplin |
| Edit | Delete | 51 | user | 0 | 1 | NULL | NULL | FALSE | FALSE | 1 | steve.jobs@demo.com | sjobs |

# Only Users, not deleted
# selected columns

SELECT <mark>id, name, emailaddress, title, logindate</mark> FROM "public"."ss_principals" WHERE not deleted AND type = 'user';

| Actions | | id | name | emailaddress | title | logindate | internal | fromldap | fromlocal |
|---------|---------|----|------|--------------|-------|-----------|----------|----------|-----------|
| Edit | Delete | 5 | _postingagent | NULL | Email Posting Agent | NULL | TRUE | FALSE | TRUE |
| Edit | Delete | 6 | _jobprocessingagent | NULL | Job Processing Agent | NULL | TRUE | FALSE | TRUE |
| Edit | Delete | 7 | _synchronizationagent | NULL | Synchronization Agent | NULL | TRUE | FALSE | TRUE |
| Edit | Delete | 8 | _filesyncagent | NULL | File Sync Agent | NULL | TRUE | FALSE | TRUE |
| Edit | Delete | 9 | guest | NULL | Guest | NULL | FALSE | FALSE | TRUE |
| Edit | Delete | 64 | amarsden@demo.com | amarsden@demo.com | Adam Marsden | 2024-04-08 06:55:23.052 | FALSE | FALSE | TRUE |
| Edit | Delete | 1 | admin | NULL | admin | 2023-11-16 09:49:07.002 | TRUE | FALSE | TRUE |
| Edit | Delete | 50 | larmstrong | louis.armstrong@demo.com | Louis Armstrong | NULL | TRUE | TRUE | FALSE |
| Edit | Delete | 48 | aeinstein | albert.einstein@demo.com | Albert Einstein | 2024-04-04 12:42:50.215 | TRUE | TRUE | FALSE |
| Edit | Delete | 49 | cchaplin | charles.chaplin@demo.com | Charles Chaplin | 2024-04-04 15:51:23.492 | TRUE | TRUE | FALSE |
| Edit | Delete | 51 | sjobs | steve.jobs@demo.com | Steve Jobs | NULL | TRUE | TRUE | FALSE |
| Edit | Delete | 65 | bnovell | bob.novell@demo.com | Bob Novell | 2024-04-08 06:57:51.928 | TRUE | FALSE | TRUE |

# Some More Queries

# Filr – example 1

List of deleted users

- `SELECT id, firstname, lastname, title, internal, typelessdn FROM public.ss_principals WHERE `==`deleted = '1'`== ` AND type = 'user';`

List of internal users

- `SELECT id, firstname, lastname, title, internal, typelessdn FROM public.ss_principals WHERE `==`deleted = '0' AND internal`== ` AND type = 'user';`

List of internal active users

- `SELECT id, firstname, lastname, title, internal, typelessdn FROM public.ss_principals WHERE deleted = '0' AND `==`disabled = '0'`== ` AND internal AND type = 'user';`

# Filr – example 1 – output 1

SELECT id, firstname, lastname, title, internal, typelessdn FROM public.ss_principals WHERE deleted = '1' AND type = 'user';

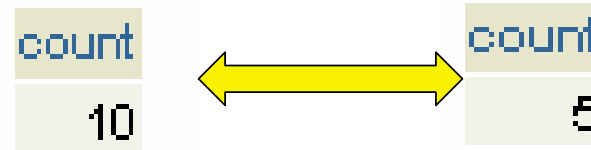| Actions | | id | firstname | lastname | title | internal | typelessdn |
|---|---|---|---|---|---|---|---|
| Edit | Delete | 12 | | | deleted mar 23, 2024, 3-31 pm 1711207886887 (Dele... | TRUE | .administrator.users.zendemo.com |
| Edit | Delete | 10 | Robin | Jansen | Robin Jansen (Deleted Mar 23, 2024, 3-32 PM 17112... | TRUE | .robin jansen.hq.demoteam.zendemo.com |
| Edit | Delete | 11 | Ron | Kramer | Ron Kramer (Deleted Mar 23, 2024, 3-32 PM 1711207... | TRUE | .ron kramer.eu.demoteam.zendemo.com |
| Edit | Delete | 13 | zenworks | systemuser | zenworks systemuser (Deleted Mar 23, 2024, 3-32 P... | TRUE | .zenworks systemuser.users.zendemo.com |
| Edit | Delete | 17 | David | Swings | David Swings (Deleted Mar 23, 2024, 3-31 PM 17112... | TRUE | .david swings.eu.demoteam.zendemo.com |
| Edit | Delete | 19 | Kaare | Gustafson | Kaare Gustafson (Deleted Mar 23, 2024, 3-31 PM 17... | TRUE | .kaare gustafson.ap.demoteam.zendemo.com |
| Edit | Delete | 18 | | | deleted mar 23, 2024, 3-32 pm 1711207920030 (Dele... | TRUE | .krbtgt.users.zendemo.com |
| Edit | Delete | 16 | mfdc | server | mfdc server (Deleted Mar 23, 2024, 3-32 PM 171120... | TRUE | .mfdc server.users.zendemo.com |
| Edit | Delete | 14 | Mike | Geisreiter | Mike Geisreiter (Deleted Mar 23, 2024, 3-32 PM 17... | TRUE | .mike geisreiter.eu.demoteam.zendemo.com |
| Edit | Delete | 15 | Oliver | Beckert | Oliver Beckert (Deleted Mar 23, 2024, 3-32 PM 171... | TRUE | .oliver beckert.eu.demoteam.zendemo.com |
| Edit | Delete | 23 | Bob | Blair | Bob Blair (Deleted Mar 23, 2024, 3-31 PM 17112078... | TRUE | .bob blair.na.demoteam.zendemo.com |
| Edit | Delete | 22 | Fernando | Gomez | Fernando Gomez (Deleted Mar 23, 2024, 3-31 PM 171... | TRUE | .fernando gomez.eu.demoteam.zendemo.com |
| Edit | Delete | 24 | Lothar | Bowe | Lothar Bowe (Deleted Mar 23, 2024, 3-32 PM 171120... | TRUE | .lothar bowe.na.demoteam.zendemo.com |
| Edit | Delete | 21 | Oscar | Heiden | Oscar Heiden (Deleted Mar 23, 2024, 3-32 PM 17112... | TRUE | .oscar heiden.na.demoteam.zendemo.com |
| Edit | Delete | 25 | Patrick | Carpenter | Patrick Carpenter (Deleted Mar 23, 2024, 3-32 PM ... | TRUE | .patrick carpenter.na.demoteam.zendemo.com |
| Edit | Delete | 26 | Regis | Contin | Regis Contin (Deleted Mar 23, 2024, 3-32 PM 17112... | TRUE | .regis contin.eu.demoteam.zendemo.com |
| Edit | Delete | 20 | Richard | Wotherspoon | Richard Wotherspoon (Deleted Mar 23, 2024, 3-32 P... | TRUE | .richard wotherspoon.na.demoteam.zendemo.com |
| Edit | Delete | 52 | | amarsden@demo.com | amarsden@demo.com (Deleted Apr 7, 2024, 4-48 PM 1... | FALSE | |

# Filr – example 1 – output 3

SELECT id, firstname, lastname, title, internal, typelessdn FROM public.ss_principals WHERE deleted = '0' AND disabled = '0' AND <mark>internal</mark> AND type = 'user';

| Actions | | id | firstname | lastname | title | internal | typelessdn |
|---|---|---|---|---|---|---|---|
| Edit | Delete | 5 | | Email Posting Agent | Email Posting Agent | TRUE | |
| Edit | Delete | 6 | | Job Processing Agent | Job Processing Agent | TRUE | |
| Edit | Delete | 7 | | Synchronization Agent | Synchronization Agent | TRUE | |
| Edit | Delete | 8 | | File Sync Agent | File Sync Agent | TRUE | |
| Edit | Delete | 1 | | admin | admin | TRUE | |
| Edit | Delete | 50 | Louis | Armstrong | Louis Armstrong | TRUE | .larmstrong.users.oh |
| Edit | Delete | 48 | Albert | Einstein | Albert Einstein | TRUE | .aeinstein.users.oh |
| Edit | Delete | 49 | Charles | Chaplin | Charles Chaplin | TRUE | .cchaplin.users.oh |
| Edit | Delete | 51 | Steve | Jobs | Steve Jobs | TRUE | .sjobs.users.oh |
| Edit | Delete | 65 | Bob | Novell | Bob Novell | TRUE | |

# Filr – example 2

Count internal users

- `SELECT `<mark>`COUNT(*)`</mark>` FROM public.ss_principals WHERE deleted = '0' AND internal AND type = 'user';`

- *AND id > 9*



List external users

- `SELECT id,firstname,lastname,title,internal,typelessdn FROM public.ss_principals WHERE deleted = '0' AND `<mark>`NOT internal`</mark>` AND type = 'user';`

# Simple Queries - Statistics

How many users/groups are in the Filr environment

- **select count**(*) **from** ss_principals **where type** = 'user' **and** disabled=**false and** deleted=**false**;
- **select count**(*) **from** ss_principals **where type** = 'group' **and** disabled=**false and** deleted=**false**;

How many Folders are in the Filr environment

- `select count(*) from ss_forums where deleted=false;`

How many Files are in the Filr environment
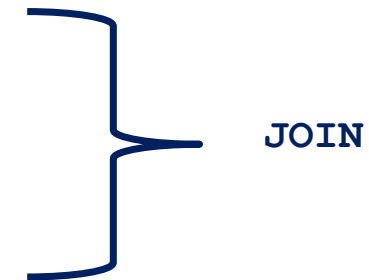
- `select count(*) from ss_folderentries;`

# What if there is more than one Table?

# ss_shareitem

table ss_shareitem contains links to other tables …

•sharerid: who shares - who

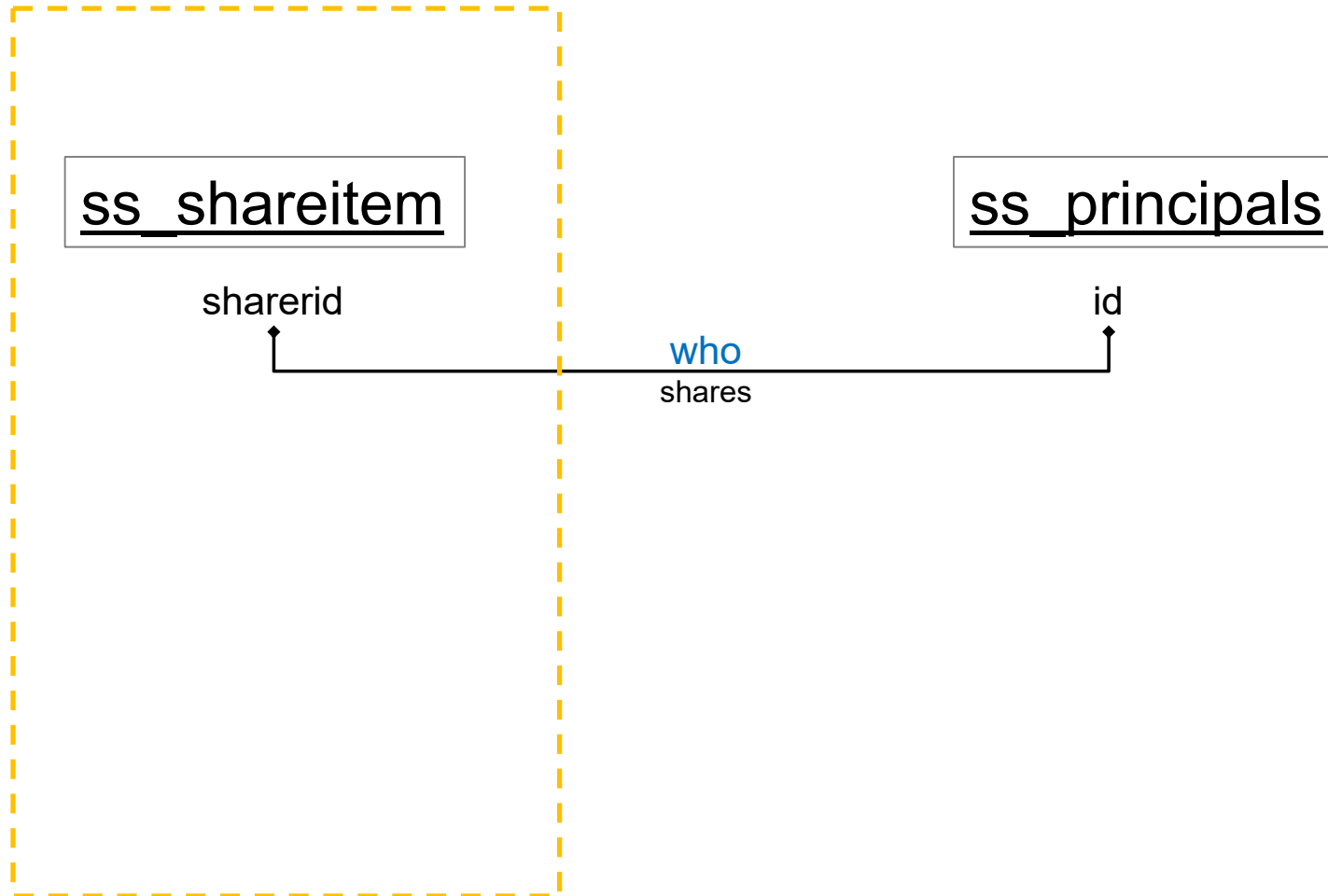•recipient_id: who participates – to whom

•sharedentity_id: shared item - what
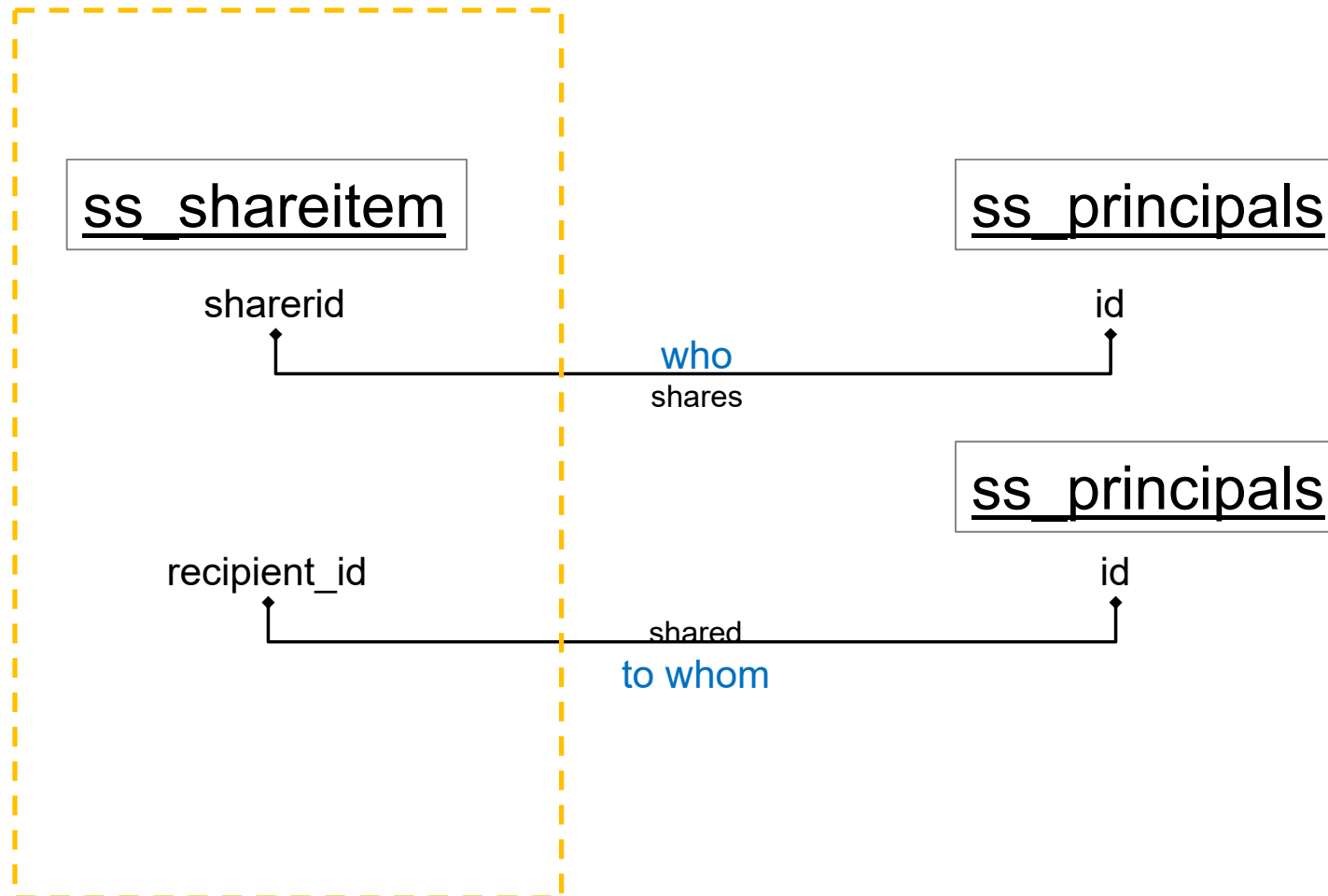
JOIN

```
SELECT * FROM "public"."ss_shareitem";
```

Submit Query

| Actions | | id | zoneid | latest | sharerid | sharedentity_type | sharedentity_id | comments | daystoexpire | startdate | enddate | recipient_type | recipient_id | expi |
|---------|---|----|--------|--------|----------|-------------------|-----------------|----------|--------------|-----------|---------|----------------|--------------|------|
| Edit | Delete | 3 | 1 | TRUE | 48 | 6 | 41462 | Hier ist die Datei ... | 30 | 2024-04-07 13:13:06.41 | 2024-05-07 13:13:06.412 | 1 | 52 | NULL |
| Edit | Delete | 1 | 1 | TRUE | 48 | 2 | 1794 | hier ist die datei | 30 | 2024-04-04 15:49:59.731 | 2024-05-04 15:49:59.733 | 1 | 49 | NULL |
| Edit | Delete | 2 | 1 | TRUE | 48 | 6 | 41464 | NULL | 30 | 2024-04-04 16:32:37.127 | 2024-05-04 16:32:37.127 | 1 | 49 | NULL |
| Edit | Delete | 4 | 1 | TRUE | 1 | 6 | 1 | bitte anmelden und verwenden | 30 | 2024-04-08 06:54:04.921 | 2024-05-08 06:54:04.973 | 1 | 64 | NULL |
| Edit | Delete | 5 | 1 | TRUE | 1 | 6 | 1 | bb | 30 | 2024-04-08 13:41:00.175 | 2024-05-08 13:41:00.222 | 1 | 67 | NULL |
| Edit | Delete | 6 | 1 | TRUE | 48 | 6 | 41471 | Hier ist meine Freigabe .... | 30 | 2024-04-09 09:30:55.578 | 2024-05-09 09:30:55.727 | 1 | 68 | NULL |

# Paperwork (1)

# Paperwork (2)

ss_shareitem

ss_principals

sharerid          id

who
shares

ss_principals

recipient_id       id

shared
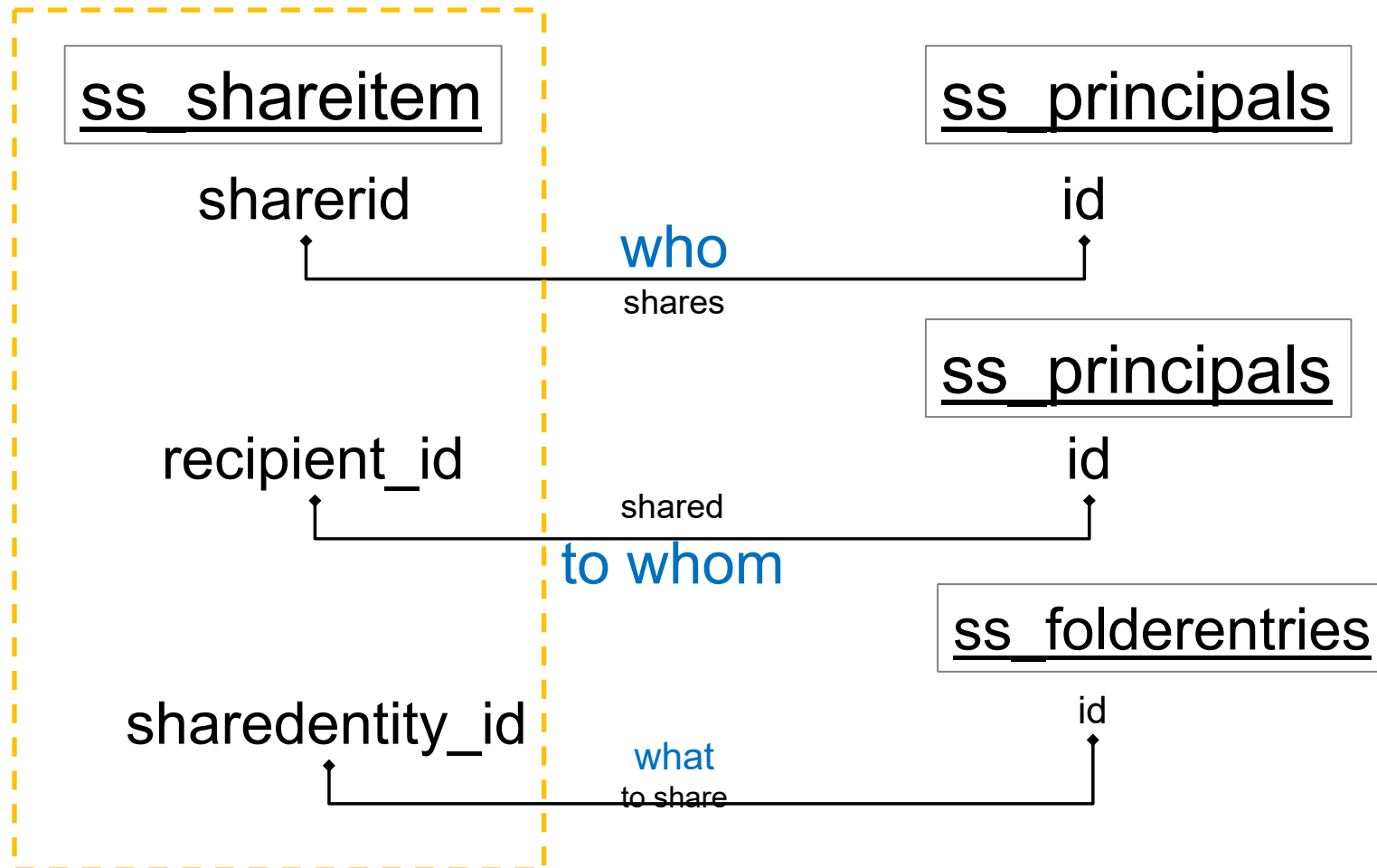to whom

# Paperwork (3)

# ss_shareitem

It seems that I need 3 tables for my results (two times the same table ss_principals)

Ids link these tables

- JOIN … ON id1 = id2

Main table is ss_shareitem

Placeholders for my two tables

- S – ss_shareitem
- P1 – ss_principals (WHO)
- P2 – ss_principals (TO WHOM)
- F – ss_forums (WHAT)

# List of Shares

```sql
SELECT S.sharerid as ID1, P1.title as "WHOM", S.sharedentity_id as ID2, F.title
as "WHAT", S.recipient_id as ID3, (CASE WHEN P2.lastname is NULL THEN 'public'
ELSE P2.lastname END) as "TO_WHOM",comments, daystoexpire, enddate
FROM public.ss_shareitem as S
LEFT JOIN public.ss_principals as P1 ON S.sharerid = P1.id
LEFT JOIN public.ss_principals as P2 ON S.recipient_id = P2.id
LEFT JOIN public.ss_folderentries as F ON S.sharedentity_id = F.id;
```

# Filr – List Shares - Output

## Query Results

```
SELECT S.sharerid as ID1, P1.title as "WHOM", S.sharedentity_id as ID2, F.title as "WHAT", S.recipient_id
as ID3, (CASE WHEN P2.lastname is NULL THEN 'public' ELSE P2.lastname END) as "TO_WHOM",comments,
daystoexpire, enddate
FROM public.ss_shareitem as S
LEFT JOIN public.ss_principals as P1 ON S.sharerid = P1.id
LEFT JOIN public.ss_principals as P2 ON S.recipient_id = P2.id
LEFT JOIN public.ss_forums as F ON S.sharedentity_id = F.id
WHERE P2.id >0;
```

Submit Query

| id1 | WHOM | id2 | WHAT △ | id3 | TO_WHOM | comments | daystoexpire | enddate |
|---|---|---|---|---|---|---|---|---|
| 10 | Diethmar Rimser | 48418 | Bildschirme KUG | 161 | GMAIL | *NULL* | 30 | 2024-05-03 15:13:22.265 |
| 10 | Diethmar Rimser | 48830 | GroupWise Trainingsordner | 161 | GMAIL | *NULL* | 30 | 2024-05-03 13:26:01.825 |
| 1 | admin | 38731 | Infos zwischendurch | 10 | Rimser | share 2 | 30 | 2023-09-17 07:41:28.929 |
| 11 | Sophie Rimser | 34656 | Latein mündlich | 59 | Wittner | | -1 | *NULL* |
| 1 | admin | 870 | Test um 13_20 | 10 | Rimser | *NULL* | 30 | 2023-09-17 07:39:22.135 |
| 12 | Peter Selzer | 20929 | Weissel Wien | 14 | Steininger | *NULL* | -1 | *NULL* |

# Filr – Search Files

Search file "empty.txt"

- ```
  SELECT E.id as FileID, E.title AS Dateiname, F.id as FolderID, F.title as
  Ordnername, F.pathname, E.creation_date, E.lastactivity, E.modification_date
  FROM public.SS_FolderEntries AS E
  LEFT JOIN public.SS_Forums AS F ON E.parentBinder = F.id WHERE E.title =
  'empty.txt' ORDER by E.title;
  ```

Search files similar to "txt"

- ```
  SELECT E.id as FileID, E.title AS Dateiname, F.id as FolderID, F.title as
  Ordnername, F.pathname, E.creation_date, E.lastactivity, E.modification_date
  FROM public.SS_FolderEntries AS E
  LEFT JOIN public.SS_Forums AS F ON E.parentBinder = F.id WHERE E.title like
  '%txt%' ORDER by E.title;
  ```

# Filr – Search Files – Output

Search file "empty.txt"

**Query Results**

```
SELECT E.id as FileID, E.title AS Dateiname, F.id as FolderID, F.title as Ordnername, F.pathname,
E.creation_date, E.lastactivity, E.modification_date
FROM public.SS_FolderEntries AS E
LEFT JOIN public.SS_Forums AS F ON E.parentBinder = F.id WHERE E.title = 'empty.txt' ORDER by E.title;
```

Submit Query

| fileid | dateiname | folderid | ordnername | pathname | creation_date | lastactivity | modification_date |
|--------|-----------|----------|------------|----------|---------------|--------------|-------------------|
| 41462 | empty.txt | 1790 | Start | /Home Workspace/Personal Workspaces/Albert Einste... | 2024-04-04 12:53:00.652 | 2024-04-07 13:14:18.58 | 2024-04-04 12:53:00.652 |
| 41465 | empty.txt | 1796 | Start | /Home Workspace/Personal Workspaces/Charles Chapl... | 2024-04-04 15:53:07.114 | 2024-04-04 15:53:07.114 | 2024-04-04 15:53:07.114 |

2 row(s)

# Filr – Login Information

List of logins within last 22 hours including names

- ```sql
  SELECT L.logintime, L.userid, L.authenticator, L.clientaddr, P.firstname,
  P.lastname FROM "public"."ss_loginaudit" AS L

  LEFT JOIN public.ss_principals AS P ON L.userid = P.id

  WHERE logintime >= current_timestamp at time zone 'utc' - interval '22 hour'
  ORDER BY logintime;
  ```

# Check and Update Never expiry shares

Check the number of Never shares in a given zone

- `SELECT COUNT(*) FROM public.ss_shareitem WHERE enddate is NULL AND zoneid = (SELECT zoneid FROM public.ss_zoneinfo where zonename = 'ZONE_NAME');`

Update the Never shares with a default expiry value of 30 days

- `UPDATE public.ss_shareitem SET enddate = current_date + 30, daystoexpire = 30 WHERE enddate is NULL AND zoneid = (SELECT zoneid FROM public.ss_zoneinfo where zonename = 'ZONE_NAME');`

# Check and Update Never expiry shares

Set the default Landingpage

- `UPDATE public.ss_principals SET landingpage = '-100' WHERE landingpage is NULL AND zoneid = (SELECT zoneid FROM public.ss_zoneinfo where zonename = 'ZONE_NAME')`

- -100 = my Files, -103 = Netfolders

Set the default Timezone

- `UPDATE public.ss_principals SET timezone = 'GMT' WHERE timezone='Europe/Berlin';`

# Change Ownership of a Share
# (not supported!)

# ss_shareitem

table ss_shareitem contains links to other tables …

•sharerid: who shares - <span style="color:red">who</span>

•recipient_id: who participates – to whom

•sharedentity_id: shared item - <span style="color:blue">what</span>

JOIN

```
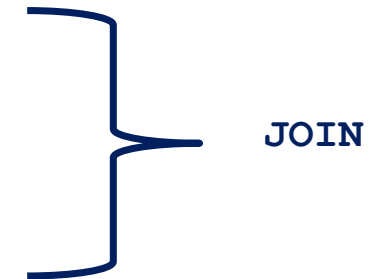SELECT * FROM "public"."ss_shareitem";
```

Submit Query

| Actions | | id | zoneid | latest | sharerid | sharedentity_type | sharedentity_id | comments | daystoexpire | startdate | enddate | recipient_type | recipient_id | expi |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edit | Delete | 3 | 1 | TRUE | 48 | 6 | 41462 | Hier ist die Datei ... | 30 | 2024-04-07 13:13:06.41 | 2024-05-07 13:13:06.412 | 1 | 52 | NULL |
| Edit | Delete | 1 | 1 | TRUE | 48 | 2 | 1794 | hier ist die datei | 30 | 2024-04-04 15:49:59.731 | 2024-05-04 15:49:59.733 | 1 | 49 | NULL |
| Edit | Delete | 2 | 1 | TRUE | 48 | 6 | 41464 | NULL | 30 | 2024-04-04 16:32:37.127 | 2024-05-04 16:32:37.127 | 1 | 49 | NULL |
| Edit | Delete | 4 | 1 | TRUE | 1 | 6 | 1 | bitte anmelden und verwenden | 30 | 2024-04-08 06:54:04.921 | 2024-05-08 06:54:04.973 | 1 | 64 | NULL |
| Edit | Delete | 5 | 1 | TRUE | 1 | 6 | 1 | bb | 30 | 2024-04-08 13:41:00.175 | 2024-05-08 13:41:00.222 | 1 | 67 | NULL |
| Edit | Delete | 6 | 1 | TRUE | 48 | 6 | 41471 | Hier ist meine Freigabe .... | 30 | 2024-04-09 09:30:55.578 | 2024-05-09 09:30:55.727 | 1 | 68 | NULL |

# Request and Solution

Filr user will be deleted but is owner of some important shares!

- Another account has to take ownership

- No option with Filr

Approach:

Id of original owner: original_owner

Id of new owner: new_owner

Id of shared folder: folder_id

Rewrite for folder_id from original_owner to new_owner

# Change Ownership

Find original owner

        SELECT * FROM public.ss_principals where name like '%original_owner%' ;

oder

- SELECT * FROM public.ss_principals where foreignname like
  '%original_owner%' ;

Work on folder_id

SELECT * FROM public.ss_shareitem WHERE sharerid = original_owner;

# Change Ownership (2)

Small approach – one entry

- UPDATE public.ss_shareitem SET sharerid = new_owner WHERE sharerid = original_owner and sharedentity_id=folder_id;

Large approach – all shares of original_owner

- UPDATE public.ss_shareitem SET sharerid = new_owner WHERE sharerid = original_owner;

# psql

Command Line

# Filr – Command Line Activities

```
psql


psql -U filr -d filr -c (SELECT * FROM ss_folders)


psql -U postgres -d filr -c "\copy ($runcommand) TO '/tmp/$DOTHIS'
DELIMITER ',' QUOTE '\"' FORCE QUOTE * HEADER CSV"
```

- **$runcommand**
  will be replaced by one of my SQL statements (i.e. "select * from ss_folders")
- **$DOTHIS**
  target directory

# Simple Queries

How many users/groups are in the Filr environment

- **select count**(*) **from** ss_principals **where type** = 'user' **and** disabled=**false and** deleted=**false**;
- **select count**(*) **from** ss_principals **where type** = 'group' **and** disabled=**false and** deleted=**false**;

How many Folders are in the Filr environment

- `select count(*) from ss_forums where deleted=`**false;**

How many Files are in the Filr environment

- `select count(*) from ss_folderentries;`

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# Check and Update Never expiry shares

Check the number of Never shares in a given zone

- `SELECT COUNT(*) FROM public.ss_shareitem WHERE enddate is NULL AND zoneid = (SELECT zoneid FROM public.ss_zoneinfo where zonename = 'ZONE_NAME');`

Update the Never shares with a default expiry value of 30 days

- `UPDATE public.ss_shareitem SET enddate = current_date + 30, daystoexpire = 30 WHERE enddate is NULL AND zoneid = (SELECT zoneid FROM public.ss_zoneinfo where zonename = 'ZONE_NAME');`

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# Check and Update Never expiry shares

Set the default Landingpage

- `UPDATE public.ss_principals SET landingpage = '-100' WHERE landingpage is NULL AND zoneid = (SELECT zoneid FROM public.ss_zoneinfo where zonename = 'ZONE_NAME')`

- -100 = my Files, -103 = Netfolders

Set the default Timezone

- `UPDATE public.ss_principals SET timezone = 'GMT' WHERE timezone='Europe/Berlin';`

# Complex Query – All Shares

```sql
Select
    ss_shareitem.id,
    ss_shareitem.startdate As start,
    ss_shareitem.enddate As endtime,
    Case ss_shareitem.sharedentity_type
        When 2
        Then 'Folder'
        When 6
        Then 'File'
        Else ''
    End As type,
    Sharer.name As sharer,

    case ss_shareitem.recipient_type
        when 12
        then 'Share Link'
        else    Recipient.name
    end As Recipient,


    ss_folderentries.title,
    Case ss_shareitem.sharedentity_type
        When 2
        Then ss_forums1.pathname
        When 6
        Then ss_forums.pathname
        Else ''
    End As Folder,

    case
        when (ss_shareitem.right_modifyentries
        is true)
            then 'Edit'
        else
            'View'
    end as righs,


    Case
        When (ss_shareitem.isread Is Null)
        Then False
        Else ss_shareitem.isread
    End As Accessed

From
    ss_shareitem Left Join

    ss_principals Recipient On Recipient.id =
    ss_shareitem.recipient_id Left Join

    ss_principals Sharer On Sharer.id =
    ss_shareitem.sharerid Left Join

    ss_folderentries On ss_folderentries.id =
    ss_shareitem.sharedentity_id Left Join

    ss_forums On ss_forums.id =
    ss_folderentries.parentbinder Left Join

    ss_forums ss_forums1 On ss_forums1.id
    = ss_shareitem.sharedentity_id

Order By
    ss_shareitem.id
```

# Sample Queries

**list of deleted users**

```sql
SELECT id,firstname,lastname,title,internal,typelessdn FROM public.ss_principals WHERE deleted = '1' AND type = 'user';
```

**list of internal users**

```sql
SELECT id,firstname,lastname,title,internal,typelessdn FROM public.ss_principals WHERE deleted = '0' AND internal AND type = 'user';
```

**list of all internal, active users**

```sql
SELECT id,firstname,lastname,title,internal,typelessdn FROM public.ss_principals WHERE deleted = '0' AND disabled = '0' AND internal AND type = 'user';
```

**list of all internal, inactive users**

```sql
SELECT id,firstname,lastname,title,internal,typelessdn FROM public.ss_principals WHERE deleted = '0' AND disabled = '1' AND internal AND type = 'user';
```

**Number of internal users**

```sql
SELECT COUNT(*) FROM public.ss_principals WHERE deleted = '0' AND internal AND type = 'user';
```

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# Sample Queries

**list of external users**

**SELECT** id,firstname,lastname,title,**internal**,typelessdn **FROM public**.ss_principals **WHERE** deleted = '0' **AND NOT internal AND type** = 'user';


**list of users and their used ip address**

**SELECT** logintime, clientaddr, P.id, P.title **FROM public**.ss_loginaudit **AS** L

**LEFT JOIN public**.ss_principals **AS** P **ON** L.userid = P.id;


**list af all mail addresses**

**SELECT** E.principal, P.firstname, P.lastname, P.title, P.fromldap, P.fromlocal, E.address **FROM public**.ss_emailaddresses **AS** E

**LEFT JOIN public**.ss_principals **AS** P **ON** E.principal = P.id

**ORDER by** P.lastname;

# Sample Queries

**list of users without mail address**

```sql
SELECT P.id,P.firstname,P.lastname,P.title,P.internal,P.typelessdn FROM public.ss_principals AS P
LEFT JOIN public.ss_emailaddresses AS E ON P.id = E.principal
WHERE E.address is NULL AND P.type = 'user';
```

**list of all undeleted users without mail address**

```sql
SELECT P.id,P.firstname,P.lastname,P.title,P.internal,P.typelessdn FROM public.ss_principals AS P
LEFT JOIN public.ss_emailaddresses AS E ON P.id = E.principal
WHERE E.address is NULL AND deleted <> '1' AND P.type = 'user';
```

**list of all groups and memberships**

```sql
SELECT P.id,P.title,P1.id,P1.firstname,P1.lastname FROM public.ss_principalmembership AS M
JOIN public.ss_principals AS P ON M.groupid = P.id
JOIN public.ss_principals AS P1 ON M.userid = P1.id
ORDER by P.title;
```

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# Sample Queries

**list of all members of a group (please replace xxxxx)**

```sql
SELECT P.id,P.title,P1.id,P1.firstname,P1.lastname FROM public.ss_principalmembership AS M
JOIN public.ss_principals AS P ON M.groupid = P.id
JOIN public.ss_principals AS P1 ON M.userid = P1.id
WHERE P.title = 'xxxxx'
ORDER by P.title;
```

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