
Subject: Re: Any way to generate sch from database?
Posted by [alendar](#) on Mon, 05 Apr 2010 08:28:08 GMT
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I hacked a script together, but it poops out if there's a column the same name as a table.

```
drop sequence if exists foo;
create sequence foo;
drop table if exists x ;
create temporary table x as
select table_name, column_name, udata_type, data_type, character_maximum_length,
nextval('foo') as i
from (select upper(table_name) as table_name, upper(column_name) as column_name
,case data_type
    when 'integer' then 'INT'
    when 'character' then 'STRING'
    when 'character varying' then 'STRING'
    when 'double precision' then 'DOUBLE'
    when 'text' then 'STRING'
    when 'timestamp without time zone' then 'TIMESTAMP'
    when 'timestamp with time zone' then 'TIMESTAMP'
    when 'array' then 'TIMESTAMP' -- Bug
    else data_type
end as Udata_type
, data_type as data_type
, character_maximum_length
from information_schema.columns where table_schema = 'mydb'
and data_type <> 'tsvector'
order by 1,2) as rr;

select line from (
select distinct table_name, '1' as ord1, 'TABLE_(' || table_name || ')' as line from x
union all
select table_name, '2' as ord1, ' ' || Udata_type || case when i = (select min(xb.i) from x xb where
xb.column_name = x.column_name) then '_' else " end
|| ' (' || column_name ||
    case when udata_type = 'STRING' then ', ' || coalesce(cast(
case when data_type = 'text' then 1024 else character_maximum_length end as character
varying), '255') else " end || ')'
from x
union all
select distinct table_name, '3' as ord1, 'END_TABLE ' as line from x
order by 1,2,3
) as rr
```

Spits out:

```

TABLE_(ARTISTS_BLOCKED)
  STRING_ (ADDINGUSERNAME, 255)
  STRING_ (ARTISTNAME, 255)
  STRING_ (COMMENTS, 255)
  STRING_ (REASON, 255)
  TIMESTAMP_ (WHENADDED)
END_TABLE
TABLE_(EXTRACTFOLDERS)
  STRING_ (DRIVENAME, 1024)
  STRING_ (FOLDERNAME, 255)
  STRING_ (MACHINENAME, 255)
END_TABLE
TABLE_(FOLDERS_001)
  STRING (COMMENTS, 1024)
  STRING (DRIVENAME, 255)
  STRING (FOLDERNAME, 255)
  STRING (MACHINENAME, 255)
  STRING_ (ISFROZEN, 1)
  TIMESTAMP_ (WHENLASTCHANGED)
END_TABLE
TABLE_(GENRES_001)
  STRING_ (GENRENAME, 255)
  STRING_ (GENRES_TBL, 255)
END_TABLE
TABLE_(GENRES_BLOCKED)
  STRING (ADDINGUSERNAME, 255)
  STRING (COMMENTS, 255)
  STRING (GENRENAME, 255)
  STRING (REASON, 255)
  TIMESTAMP (WHENADDED)
END_TABLE
TABLE_(LIST_SONGS_001)
  DOUBLE_ (PROCESSORDER)
  INT_ (LISTID)
  INT_ (SONGID)
  STRING (ARTISTNAME, 255)
  STRING (COMMENTS, 255)
  STRING (DRIVENAME, 255)
  STRING (FOLDERNAME, 255)
  STRING (MACHINENAME, 255)
  STRING_ (ALBUMNAME, 255)
  STRING_ (FILENAME, 255)
  STRING_ (FILEPATH, 255)
  STRING_ (ISUNCPATH, 1)
  STRING_ (ISURL, 1)
  STRING_ (LISTNAME, 255)
  STRING_ (LISTS_TBL, 255)
  STRING_ (LISTSONGS_TBL, 255)

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    STRING_ (LOOKTODB_TBL, 255)
    STRING_ (LOOKTOLISTS_TBL, 255)
    STRING_ (LOOKTOSONGS_TBL, 255)
    STRING_ (MACHINES_TBL, 255)
    STRING_ (NETWORKNAME, 255)
    STRING_ (NETWORKS_TBL, 255)
    STRING_ (SONGS_TBL, 255)
    STRING_ (TITLE, 255)
    STRING_ (USERNAME, 255)
    STRING_ (USERS_TBL, 255)
    TIMESTAMP (WHENADDED)
END_TABLE
TABLE_(LISTS_001)
    INT (LISTID)
    STRING (COMMENTS, 255)
    STRING (LISTNAME, 255)
    STRING (LISTS_TBL, 255)
    STRING (MACHINENAME, 255)
    STRING (MACHINES_TBL, 255)
    STRING (NETWORKNAME, 255)
    STRING (NETWORKS_TBL, 255)
    STRING (USERNAME, 255)
    STRING (USERS_TBL, 255)
    STRING_ (ISJAMMIT, 1)
    TIMESTAMP_ (WHENCREATED)
END_TABLE
TABLE_(MACHINES_001)
    STRING (COMMENTS, 255)
    STRING (MACHINENAME, 255)
    STRING (MACHINES_TBL, 255)
    STRING (NETWORKNAME, 255)
    STRING (NETWORKS_TBL, 255)
    STRING_ (PRIMARYMACHINEUSERNAME, 255)
END_TABLE
TABLE_(NETWORKS_001)
    STRING (COMMENTS, 255)
    STRING (NETWORKNAME, 255)
    STRING (NETWORKS_TBL, 255)
END_TABLE
TABLE_(REASONS_001)
    INT_ (REASONID)
    STRING (REASON, 255)
    STRING_ (FORACTION, 255)
    STRING_ (REASONS_TBL, 255)
END_TABLE
TABLE_(SCRIPTS_001)
    STRING (COMMENTS, 1024)
    STRING_ (ISREADYFORREGULARUSE, 1)

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    STRING_ (SCRIPT, 1024)
    STRING_ (SCRIPTNAME, 80)
    STRING_ (SCRIPTTYPE, 20)
    TIMESTAMP (WHENADDED)
END_TABLE
TABLE_(SEQUENCES_001)
    INT_ (NEXTID)
    STRING_ (TABLENAME, 255)
END_TABLE
TABLE_(SONGS_001)
    INT (SONGID)
    INT_ (BITRATE)
    INT_ (CHANNELS)
    INT_ (FILESIZE)
    INT_ (FINISHCT)
    INT_ (LENGTHMS)
    INT_ (ORIGINALFILESIZE)
    INT_ (ORIGINALLENGTHMS)
    INT_ (PLAYMS)
    INT_ (RATING)
    INT_ (REPEATCT)
    INT_ (ROLLINCT)
    INT_ (ROLLINDEPTHSUM)
    INT_ (SAMPLERATE)
    INT_ (SELECTCT)
    INT_ (SKIPCT)
    INT_ (SKIPINMS)
    INT_ (SKIPMS)
    INT_ (STARTCT)
    INT_ (TRACKNO)
    INT_ (TRIMOFFENDMS)
    STRING (ALBUMNAME, 255)
    STRING (ARTISTNAME, 255)
    STRING (COMMENTS, 255)
    STRING (DRIVENAME, 255)
    STRING (FILENAME, 255)
    STRING (FILEPATH, 255)
    STRING (FOLDERNAME, 255)
    STRING (GENRENAME, 255)
    STRING (ISUNCPATH, 1)
    STRING (ISURL, 1)
    STRING (MACHINENAME, 255)
    STRING (MACHINES_TBL, 255)
    STRING (NETWORKNAME, 255)
    STRING (NETWORKS_TBL, 255)
    STRING (SONGS_TBL, 255)
    STRING (TITLE, 255)
    STRING_ (COMPOSERNAME, 255)

```

```

STRING_ (FILEID, 128)
STRING_ (ISBLOCKED, 1)
STRING_ (ISKEEPER, 1)
STRING_ (LANGUAGE, 45)
STRING_ (LISTSSONGISON_COLL, 255)
STRING_ (LYRICS, 1024)
STRING_ (ORIGINALFILENAME, 255)
STRING_ (ORIGINALETITLE, 255)
STRING_ (PUBLISHERNAME, 255)
STRING_ (RELEASEYEAR, 255)
TIMESTAMP (WHENADDED)
TIMESTAMP_ (WHENFILECREATED)
TIMESTAMP_ (WHENFILEMODIFIED)
END_TABLE
TABLE_(SONGS_REMOVED)
INT (BITRATE)
INT (CHANNELS)
INT (FILESIZE)
INT (LENGTHMS)
INT (ORIGINALFILESIZE)
INT (ORIGINALLENGTHMS)
INT (RATING)
INT (SAMPLERATE)
INT (SONGID)
STRING (ALBUMNAME, 255)
STRING (ARTISTNAME, 255)
STRING (COMMENTS, 1024)
STRING (DRIVENAME, 255)
STRING (FILEID, 128)
STRING (FILEPATH, 255)
STRING (FOLDERNAME, 255)
STRING (ISBLOCKED, 1)
STRING (ISUNCPATH, 1)
STRING (ISURL, 1)
STRING (LANGUAGE, 45)
STRING (LYRICS, 1024)
STRING (MACHINENAME, 255)
STRING (MACHINES_TBL, 255)
STRING (NETWORKNAME, 255)
STRING (NETWORKS_TBL, 255)
STRING (ORIGINALFILENAME, 255)
STRING (RELEASEYEAR, 255)
STRING (SONGS_TBL, 255)
STRING (TITLE, 255)
STRING_ (ISPERMITTEDBACK, 1)
STRING_ (REMOVALREASONID, 255)
STRING_ (REMOVINGUSERNAME, 255)
TIMESTAMP (WHENADDED)

```

```

    TIMESTAMP_ (WHENREMOVEDFROMMDB)
    TIMESTAMP_ (WHENREMOVEDFROMMACHINE)
END_TABLE
TABLE_(SONGS_WORKQUEUE_001)
    INT (SONGID)
    INT_ (WORKTYPEID)
    STRING (LOOKTOSONGS_TBL, 255)
    STRING (SONGS_TBL, 255)
    STRING_ (ISBEINGWORKEDON, 1)
    STRING_ (ISCOMPLETE, 1)
    STRING_ (ISERROR, 1)
    STRING_ (OUTCOME, 255)
    TIMESTAMP_ (WHENCOMPLETED)
END_TABLE
TABLE_(USERS_001)
    INT_ (DEFAULTLISTID)
    INT_ (USERID)
    STRING (COMMENTS, 1024)
    STRING (USERNAME, 255)
    STRING (USERS_TBL, 255)
    STRING_ (DEFAULTLISTS_TBL, 255)
    STRING_ (DEFAULTMACHINENAME, 255)
    STRING_ (DEFAULTMACHINES_TBL, 255)
    STRING_ (DEFAULTSONGS_TBL, 255)
    STRING_ (KEEPERSONGS_TBL, 255)
    STRING_ (RAWSONGS_TBL, 255)
    STRING_ (REMOVESONGS_TBL, 255)
    STRING_ (USERALIASES_COLL, 255)
END_TABLE
TABLE_(WORKTYPE)
    INT (WORKTYPEID)
    STRING_ (WORKTYPENAME, 255)
END_TABLE

```

Probably a U++ code method would be better.
