PostgreSQL

1

*Struc-
tured
Query
Lan-
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compiling

**pri-
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data

computing

**sec-
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data

PostgreSQL

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PostgreSQL

pgAdmin3

pgAdmin3

pgAdmin3

config_data
??

config_data
NULL
view_cab_lh_sts_shr
??
??

view_cab_lh_sts_shr

$_cab_lh_sts_shr.sql$

cab_lh_sts_shr

NULL

lhelc_id
cc_no_lhelc_id_4_lh
cc_missing_lhelc_pty_sts_records
??
pty_id

view_cab_uh_sts_shr
??
??

view_cab_uh_sts_shr

$_cab_uh_sts_shr.sql$

cab_uh_sts_shr

NULL

pty_id

view_cab_sts_ttl

$$\mid \sum^{New} s_{n,k} + \sum^{Old} s_{o,k} \mid$$

view_lhelc_lsq_noothers

$_l helc_l sq_n oothers.sql$

view_lhelc_vola_sts

$$\mid \sum^{New} s_{n,k} + \sum^{Old} s_{o,k} \mid$$

VIEW^9
REFRESH^{10}

public
configuration
??

ctr_id
cab_id
lh_id
uh_id
prs_id

13

`configuration_ctr_yr`

$configuration_c tr_y r.sql$

`WHERE`
`IN`

$uniqness_o f_w eights_i n_c tr_y rs$

trg_*_prv_id()
*_prv_id

trg_*_prv_id()

15

$_data.matviews(mv_nameNAME NOT NULL PRIMARY KEY, v_nameNAME NOT NULL, last_refreshTIMESTAMP$

```
mv_config_ev_refresh_row(#ctr,
#date)
```
$_mv_config_ev_refresh_row.sql$
```
update_mv_config_events()
```
$_update_mv_config_events().sql$
```
refresh_mv_config_events(#ctr)
```
$_refresh_mv_config_events().sql$
ctr
ctr
??
```
update_mv_config_events()
mv_config_ev_refresh_row(#ctr,
#date)
mv_config_ev_refresh_row(#ctr,
#date)
```
$_mv_config_ev_*table_it().sql$
```
*
cab
lh
uh
prselc
*table
cabinet
lower_house
upper_house
presidential_election
mv_config_ev_refresh_row(#ctr,
#date)
```
$_mv_config_ev_*table_ut().sql$
```
*
cab
lh
uh
prselc
*table
cabinet
lower_house
upper_house
presidential_election
mv_config_ev_refresh_row(#ctr,
#date)
```
$_mv_config_ev_*table_dt().sql$
```
mv_config_ev_refresh_row(#ctr,
#date)
refresh_mv_config_events(#ctr)
```
16

$_data.cabinet(cab_id, ctr_id, cab_sdate, cab_hogn, cab_care)VALUES(1036, 1, '2014-$
$01-$
$01', 'Abbott', 'FALSE');$
```
mv_config_ev_insert
mv_config_ev_cabinet_it()
mv_config_ev_refresh_row(#ctr,
#date)
```
??
ctr
```
NEW.ctr_id
```
date
```
NEW.cab_sdate
```
??
17

$_data.cabinet SET cab_sdate = '$
$2014-$
$03-$
$15'::$
$DATE WHERE cab_id =$
1036
$AND ctr_id =$
1
$AND cab_sdate = '$
$2014-$
$01-$
$01'::$
$DATE;$
```
mv_config_ev_update
mv_config_ev_cabinet_ut()
refresh_mv_config_events(#ctr)
refresh_mv_config_events(#ctr)
```
ctr
```
ctr_id
```
18

$_data.cabinet WHERE cab_id =$
$1036 AND ctr_id =$
$1 AND cab_sdate = '$
$2014-$
$03-$
$15'::$
$DATE;$
```
mv_config_ev_delete
mv_config_ev_cabinet_dt()
mv_config_ev_refresh_row(#ctr,
#date)
refresh_mv_config_events(#ctr)
```
ctr
$_data.refresh_mv_config_events(1 ::$
$SMALLINT)$
??

config_data
cc_cab_sdate
cab_sdate
lhelc_date
date_dif
prob_corr_ddif
cc_cab_sdate
$_cab_sdate.sql$
Note
cab_src
valid_cab_sdate
cc_lh_sdate
lh_sdate
lhelc_date
date_dif
prob_corr_ddif
cc_lh_sdate
$_lh_sdate.sql$
Note
lh_src
valid_lh_sdate
cc_prs_sdate
prs_sdate
prselc_date
date_dif
prob_corr_ddif
cc_prs_sdate
$_prs_sdate.sql$
Note
prs_src
valid_prs_sdate
cc_uh_sdate
lh_sdate
uhelc_date
date_dif
prob_corr_ddif
cc_uh_sdate
$_uh_sdate.sql$
Note
uh_src
valid_uh_sdate
cc_specification_date_differences
N
cc_specification_date_differences
$_specification_date_differences.sql$
cc_ctry_time_series
??
??
mismatch
mismatch
cc_ctry_time_series
$_ctry_time_series.sql$
cc_missing_lhelc_pty_sts_records
Null
cc_missing_lhelc_pty_sts_records
$_missing_lhelc_pty_sts_records.sql$
Note
cc_no_cab_lh_sts_shr
??
cc_pty_lh_sts
cc_pty_lh_sts
$_pty_lh_sts.sql$
cc_lh_and_lhelc_sts_ttl
cc_lh_and_lhelc_sts_ttl
$_lh_and_lhelc_sts_ttl.sql CC Lower House election total seats Consistency check$ cc_lhelc_sts_ttl $is based on tables Lower House$
cc_lhelc_sts_ttl
$_lhelc_sts_ttl.sql CC Lower House Election Seat A Volatility Consistency check$ cc_lhelc_vola_sts $is based on table Lower H$
cc_lhelc_vola_sts
$_lhelc_vola_sts.sql CC Lower House Election Seat B Volatility Consistency check$ cc_lhelc_volb_sts $is based on table Lower$
cc_lhelc_volb_sts
$_lhelc_volb_sts.sql$
cc_missing_lhelc_pty_vts_and_sts_records
Null
cc_missing_lhelc_pty_vts_and_sts_records
$_missing_lhelc_pty_vts_and_sts_records.sql$
Note
cc_missing_lhelc_pty_vts_records
Null
cc_missing_lhelc_pty_vts_records
$_missing_lhelc_pty_vts_records.sql$
Note
cc_lhelc_vola_vts
cc_lhelc_vola_vts
$_lhelc_vola_vts.sql$
cc_lhelc_volb_vts
cc_lhelc_volb_vts
$_lhelc_volb_vts.sql$
cc_lhelc_vote_results
cc_lhelc_vote_results
$_lhelc_vote_results.sql$
cc_cabinet_hog_info
pty_cab_hog
$_cabinet_hog_info.sql$
cab_id
not
cc_hos_and_cab_cohabitation
ctr_id
sdate
in_cohabitation
cc_hos_and_cab_cohabitation
$_hos_and_cab_cohabitation.sql$
vto_prs
??
NULL

cab_id
cab_sdate
ctr_id
cab_id
pty_id
cab_id
cab_id
??
??
INSERT
INTO
$_data.cabinet(cab_id, ctr_id, cab_sdate, cab_hog_n, cab_care)VALUES(1036, 1,' 2014-$
$01-$
$01','Abbott','FALSE');$
$_data.cabinet(cab_id, ctr_id, cab_sdate, cab_hog_n, cab_care)VALUES(1036 ::$
$NUMERIC(5, 0), 1 ::$
$SMALLINT,'2014-$
$01-$
$01' ::$
$DATE,'Abbott' ::$
$NAME,'FALSE' ::$
$BOOLEAN);$
pgAdmin3
NOT
NULL
PRIMARY
KEY
UNIQUE
??
??
::
cab_id
UPDATE
SET
WHERE
$_data.cabinetSETcab_sdate ='$
$2014-$
$03-$
$15' ::$
$DATEWHEREcab_id =$
$1036ANDctr_id =$
$1ANDcab_sdate ='$
$2014-$
$01-$
$01' ::$
$DATE;$
cab_id
cab_id
cab_id