

```
prompt
prompt This script assumes you are user CWML
prompt *****
prompt
prompt This script removes old tables.
promp
pause Select: ctrl c => stop, enter => start
```

```
connect CWML
```

```
prompt ----- clearing old items
```

```
drop sequence sq_lgnr;
drop sequence sq_dcnr;
drop sequence sq_denr;
drop sequence sq_txnrr;
drop sequence sq_usnr;
```

```
drop table pe; -- permissions
drop table us; -- users
drop table tx; -- texts
drop table de; -- document elements
drop table dc; -- documents
drop table lg; -- languages
```

```
prompt ----- creating the tables
```

```
prompt ----- lg
-- language
```

```
create table lg
( lgnr number constraint pk_lg_lgnr primary key
  lgnm varchar2(30) constraint nn_lg_lgnm not null,
  lgal date -- datestamp
);
```

```
create sequence sq_lgnr order start with 7 nocache;
```



```

create table de
  ( denr number          constraint pk_de_dnr primary key,          -- id of the document element
    dcnr number          constraint fk_de_dcnr references dc(dcnr)
                                constraint nn_de_dcnr not null,
    depo number          default 0,                                -- order position in the document
    deal date            -- datestamp
  );

```

```

create sequence sq_dnr order start with 1 nocache;

```

```

create or replace trigger tr_de_biu_row
  before insert or update
  on de
  for each row

```

```

begin
  :new.deal := sysdate;
end;
/
show errors

```

```

prompt ----- tx
                                -- text

```

```

create table tx
  ( txnr number          constraint pk_tx_txnr primary key,          -- id of the text
    denr number          constraint fk_tx_dnr references de(dnr)    -- id of the document element
                                constraint nn_tx_dnr not null,
    lgnr number          constraint fk_tx_lgnr references lg(lgnr), -- language
    txtx varchar2(2000) default '',                                -- text
    txal date            -- datestamp
  );

```

```

alter table tx add (constraint uq_tx_dnr_lgnr unique ( denr, lgnr ) )

```

```

create sequence sq_txnrx order start with 1 nocache;

```

```

create or replace trigger tr_tx_biu_row
  before insert or update
  on tx
  for each row

```

```

begin
  :new.txal := sysdate;
end;
/
show errors

```

```

prompt ----- us
-- user

create table us
( usnr number constraint pk_us_usnr primary key, -- user number
  usid varchar2(30) constraint nn_us_usid not null
                        constraint uq_us_usid unique, -- user id
  uspw varchar2(30) constraint nn_us_uspw not null, -- user password
  usro varchar2(30), -- role
                        -- superuser
                        -- translator
  usal date -- date stamp
);

create or replace trigger tr_us_biu_row
before insert or update
on us
for each row

begin
:new.usal := sysdate;
end;
/
show errors

create sequence sq_usnr order start with 1 nocache;

prompt ----- pe
-- permission

create table pe
( dcnr number constraint fk_pe_dcnr references dc(dcnr),
  lgnr number constraint fk_pe_lgnr references lg(lgnr),
  usnr number constraint fk_pe_usnr references us(usnr),
  peal date -- date stamp
);

create or replace trigger tr_pe_biu_row
before insert or update
on pe
for each row

begin
:new.peal := sysdate;
end;

```

```
/
show errors
```

```
commit;
```

```
prompt -----creating the views
```

```
prompt ----- txab
-- doc+text+default_text
```

```
create or replace view txab as
select
    dc.dcnr,
    dc.dcnm,
    de.denr,
    de.depo,
    txa.lgnr lgnra,
    txa.txtx txtxa,
    txb.lgnr lgnrb,
    txb.txtx txtxb
from
    dc, de, tx txa, tx txb
where
    dc.dcnr = de.dcnr
and de.denr = txa.denr
and txb.denr = txa.denr
and txb.lgnr = dc.lgnr;
```

```
prompt ----- txd
```

```
create or replace view txd as -- The text in desired language
-- or if missing then in default language
```

```
select
    dcnr,
    dcnm,
    denr,
    depo,
    lgnra          lgnr,
    nvl(txtxa, txtxb) txtx
from
```

```
txab;
```

```
prompt ----- not_permitted
```

```
create or replace view not_permitted as
  select dc.dcnr, lg.lgnr from dc, lg
 minus
  select dcnr, lgnr from pe;
```

```
prompt ----- txmissing
```

```
create or replace view txmissing as
select distinct
  dc.dcnm,
  dc.dcnr,
  lg.lgnm,
  lg.lgnr
from
  tx, de, dc, lg
where
  tx.denr = de.denr
 and de.dcnr = dc.dcnr
 and tx.lgnr = lg.lgnr
 and tx.txtx is null;
```

```
prompt ----- txmade
```

```
create or replace view txmade as
select distinct
  dc.dcnm,
  dc.dcnr,
  lg.lgnm,
  lg.lgnr,
  count(tx.txtx) ntx,
  count(de.denr) nde
from
  tx, de, dc, lg
where
  tx.denr = de.denr
 and de.dcnr = dc.dcnr
```

```
    and tx.lgnr = lg.lgnr  
group by  
    dc.dcnm, dc.dcnr, lg.lgnm, lg.lgnr;
```

```
select lgnm, dcnm, nde, ntx from txmade where nde = ntx order by lgnm, dcnm
```

```
select lgnm, dcnm, nde, ntx from txmade where nde != ntx order by lgnm, dcnm
```