

CODIGO SQL

CONTACTO LOCAL

```
create table contacto_local (  
ID_cont_loc char(20) not null,  
nombr char(20) not null,  
apell_s char(30) not null,  
tfno char(20),  
email char(30));
```

Primary identifier (IDContacto Local)

```
alter table contacto_local add constraint N_contacto_local_IDContac_PRIM  
primary key (ID_cont_loc);
```

At-least-one (GRcontacto_local)

```
alter table contacto_local add constraint C_contacto_local_GRcontac_ATLO  
check (tfno is not null or email is not null);
```

```
create or replace trigger T_con_ID__STABLE_AUR  
after update of ID_cont_loc on contacto_local  
for each row  
when (new.ID_cont_loc <> old.ID_cont_loc and old.ID_cont_loc is not null)  
begin  
raise_application_error(-20003,'Violation of stable attribute constraint') ;  
end;
```

PROYECTO

```
create table proyecto (  
ID_proy char(100) not null,  
nombr char(100) not null,  
,  
descr char(300) not null,  
fech_solic date not null,  
durac char(50) not null,
```

```
benef char(100) not null,  
final char(200) not null,  
tipo_proy char(100) not null,  
aport_contr float(20) not null,  
pres char(100) not null);
```

```
create table proyecto_aprobado (  
  fech_aprob date not null,  
  presup_ASA float(5) not null);
```

```
Primary identifier (IDProyecto)  
alter table proyecto add constraint N_proyecto_IDProyecto_PRIM  
primary key (ID_proy);
```

```
create or replace trigger T_pro_ID__STABLE_AUR  
  after update of ID_proy on proyecto  
  for each row  
  when (new.ID_proy <> old.ID_proy and old.ID_proy is not null)  
  begin  
    raise_application_error(-20003,'Violation of stable attribute constraint') ;  
  end;
```

ASOCIACIÓN

```
create table asociacion (  
  ID_asoc char(20) not null,  
  nombr char(20) not null,  
  tfno char(20),  
  email char(30));
```

```
Primary identifier (IDAsociación)  
alter table asociacion add constraint N_asociacion_IDAsociación_PRIM  
primary key (ID_asoc);
```

```
create or replace trigger T_aso_ID__STABLE_AUR  
  after update of ID_asoc on asociacion  
  for each row  
  when (new.ID_asoc <> old.ID_asoc and old.ID_asoc is not null)  
  begin  
    raise_application_error(-20003,'Violation of stable attribute constraint') ;
```

end;

CONVENIO

```
create table convenio (  
ID_conv char(20) not null,  
cont char(2000) not null);
```

Primary identifier (IDconvenio)
alter table convenio add constraint N_convenio_IDconvenio_PRIM
primary key (ID_conv);

```
create or replace trigger T_con_ID__STABLE_AUR  
after update of ID_conv on convenio  
for each row  
when (new.ID_conv <> old.ID_conv and old.ID_conv is not null)  
begin  
raise_application_error(-20003,'Violation of stable attribute constraint');  
end;
```

SUBVENCIÓN

```
create table subvencion (  
ID_subv char(20) not null,  
fech_conc date not null,  
fech_abon date not null,  
cuant float(50) not null);
```

Primary identifier (IDsubvencion)
alter table subvencion add constraint N_subvencion_IDsubvencion_PRIM
primary key (ID_subv);

Secondary identifier (subvencion)
alter table subvencion add constraint N_subvencion_subvencion_UNI
unique (fech_conc);

```
create or replace trigger T_sub_ID__STABLE_AUR
  after update of ID_subv on subvencion
for each row
when (new.ID_subv <> old.ID_subv and old.ID_subv is not null)
begin
  raise_application_error(-20003,'Violation of stable attribute constraint') ;
end;
```

ORGANIZACIÓN

```
create table organizacion (
  ID_organ char(20) not null,
  nombr char(20) not null);
```

Primary identifier (IDorganizacion)
alter table organizacion add constraint N_organizacion_IDorganiza_PRIM
primary key (ID_organ);

```
create or replace trigger T_org_ID__STABLE_AUR
  after update of ID_organ on organizacion
for each row
when (new.ID_organ <> old.ID_organ and old.ID_organ is not null)
begin
  raise_application_error(-20003,'Violation of stable attribute constraint') ;
end;
```

CONVOCATORIA

```
create table convocatoria (
  ID_convoc char(1) not null,
  text char(1000) not null,
  condic char(1000) not null,
  dat_s char(1000) not null,
  fech_limit date not null);
```

Primary identifier (IDconvocatoria)
alter table convocatoria add constraint N_convocatoria_IDconvocat_PRIM
primary key (ID_convoc);

```
create or replace trigger T_con_ID__STABLE_AUR
  after update of ID_convoc on convocatoria
for each row
when (new.ID_convoc <> old.ID_convoc and old.ID_convoc is not null)
begin
  raise_application_error(-20003,'Violation of stable attribute constraint') ;
end;
```

RESPONSABLE

```
create table responsable (
  ID_resp char(20) not null,
  nombr char(20) not null,
  apell_s char(30) not null,
  tfno char(20),
  email char(30));
```

Primary identifier (IDResponsable)

```
alter table responsable add constraint N_responsable_IDResponsab_PRIM
primary key (ID_resp);
```

```
create or replace trigger T_res_ID__STABLE_AUR
  after update of ID_resp on responsable
for each row
when (new.ID_resp <> old.ID_resp and old.ID_resp is not null)
begin
  raise_application_error(-20003,'Violation of stable attribute constraint') ;
end;
```

COMUNICACIÓN

```
create table comunicacion (
  ID_comun char(50) not null,
  fech date not null);
```

Primary identifier (IDcomunicacion)

```
alter table comunicacion add constraint N_comunicacion_IDcomunica_PRIM
primary key (ID_comun);
```

```
create or replace trigger T_com_ID__STABLE_AUR
after update of ID_comun on comunicacion
for each row
when (new.ID_comun <> old.ID_comun and old.ID_comun is not null)
begin
raise_application_error(-20003,'Violation of stable attribute constraint') ;
end;
```

ENVÍO

```
create table envio (
ID_envio char(100) not null,
cant_env char(50) not null,
nombr char(100) not null,
fech date not null);
```

Primary identifier (IDenvio)

```
alter table envio add constraint N_envio_IDenvio_PRIM
primary key (ID_envio);
```

```
create or replace trigger T_env_ID__STABLE_AUR
after update of ID_envio on envio
for each row
when (new.ID_envio <> old.ID_envio and old.ID_envio is not null)
begin
raise_application_error(-20003,'Violation of stable attribute constraint') ;
end;
```