全局数据库 orcl

密码 Hhh00tx0

SYS Hhh00tx0mu

SYSTEM Hhh00tx0mu

SH Hhh00tx0mu

SCOTT Hhh00tx0mu

to\_char(sysdate,'yyyy-mm-dd hh24:mi:ss')

一、创建oracle的directory对象，并进行授权；sourcedb --> scott

创建directory，以便将同步的sql语句记录到磁盘文件：

create or replace directory TESTDIR as 'd:\sql\_bak\';

grant read,write on directory TESTDIR to SOURCEDB;

GRANT EXECUTE ON utl\_file TO SOURCEDB;

二、定义触发器

下面以本地同步（源库、目标库在一起）的情况举例，每5分钟产生一个记录文件，用来记录执行的同步sql语句。另外对于远程同步的情况，可以自行配置dblink，稍微修改下面sql语句即可：

[sql] view plain copy

create or replace trigger scott."test\_TRIGGER"

after insert or update or delete on scott."test\_TRIGGER"

for each row

declare

Out\_File UTL\_FILE.FILE\_TYPE; --->定义用于接收文件句柄的类型

DataHead varchar2(80);

FileName varchar2(80);

msg varchar2(8000);

file\_exist BOOLEAN;

file\_length NUMBER(10, 2);

block\_size BINARY\_INTEGER;

field\_old VARCHAR2(8000);

field\_new VARCHAR2(8000);

sqlval VARCHAR2(8000);

sqlval1 VARCHAR2(8000);

sno NUMBER;

begin

sno := floor(TO\_CHAR(SYSDATE,'MI')/5)\*5;

FileName := 'sql\_' || to\_char(sysdate, 'yyyy-mm-dd\_HH24-') || sno ||'.txt';

utl\_file.fgetattr('TESTDIR',

FileName,

file\_exist,

file\_length,

block\_size);

Out\_File := UTL\_FILE.fopen('TESTDIR', FileName, 'a');--->使用fopen打开文件，定义了文件路径，文件名，读写方式以及每一行字符的最大长度，缺省为1024

IF utl\_file.is\_open(Out\_File) THEN

IF (:old.QLR is not NULL) THEN

field\_old := ' and QLR='''||:old.QLR||'''';

ELSE

field\_old := ' and QLR is null';

end IF;

IF (:old.ZSLB is not NULL) THEN

field\_old := field\_old || ' and ZSLB='''||:old.ZSLB||'''';

ELSE

field\_old := field\_old || ' and ZSLB is null';

end IF;

IF (:old.ZL is not NULL) THEN

field\_old := field\_old || ' and ZL='''||:old.ZL||'''';

ELSE

field\_old := field\_old || ' and ZL is null';

end IF;

IF (:old.ZXYY is not NULL) THEN

field\_old := field\_old || ' and ZXYY='''||:old.ZXYY||'''';

ELSE

field\_old := field\_old || ' and ZXYY is null';

end IF;

IF (:old.DBR is not NULL) THEN

field\_old := field\_old || ' and DBR='''||:old.DBR||'''';

ELSE

field\_old := field\_old || ' and DBR is null';

end IF;

IF (:old.DBRQ is not NULL) THEN

field\_old := field\_old || ' and DBRQ='||'to\_date('''||TO\_CHAR(:old.DBRQ, 'SYYYY-MM-DD HH24:MI:SS')||''',''SYYYY-MM-DD HH24:MI:SS'')';

ELSE

field\_old := field\_old || ' and DBRQ is null';

end IF;

IF (:old.SLRQ is not NULL) THEN

field\_old := field\_old || ' and SLRQ='||'to\_date('''||TO\_CHAR(:old.SLRQ, 'SYYYY-MM-DD HH24:MI:SS')||''',''SYYYY-MM-DD HH24:MI:SS'')';

ELSE

field\_old := field\_old || ' and SLRQ is null';

end IF;

IF (:old.SLR is not NULL) THEN

field\_old := field\_old || ' and SLR='''||:old.SLR||'''';

ELSE

field\_old := field\_old || ' and SLR is null';

end IF;

IF (:old.ZXLX is not NULL) THEN

field\_old := field\_old || ' and ZXLX='''||:old.ZXLX||'''';

ELSE

field\_old := field\_old || ' and ZXLX is null';

end IF;

IF (:old.EXP\_TIME is not NULL) THEN

field\_old := field\_old || ' and EXP\_TIME='''||:old.EXP\_TIME||'''';

ELSE

field\_old := field\_old || ' and EXP\_TIME is null';

end IF;

IF (:old.EXP\_STATUS is not NULL) THEN

field\_old := field\_old || ' and EXP\_STATUS='''||:old.EXP\_STATUS||'''';

ELSE

field\_old := field\_old || ' and EXP\_STATUS is null';

end IF;

IF (:new.QLR is not NULL) THEN

field\_new := ''''||:new.QLR||'''';

ELSE

field\_new := 'null';

end IF;

IF (:new.ZSLB is not NULL) THEN

field\_new := field\_new || ','''||:new.ZSLB||'''';

ELSE

field\_new := field\_new || ',null';

end IF;

IF (:new.ZL is not NULL) THEN

field\_new := field\_new || ','''||:new.ZL||'''';

ELSE

field\_new := field\_new || ',null';

end IF;

IF (:new.ZXYY is not NULL) THEN

field\_new := field\_new || ','''||:new.ZXYY||'''';

ELSE

field\_new := field\_new || ',null';

end IF;

IF (:new.DBR is not NULL) THEN

field\_new := field\_new || ','''||:new.DBR||'''';

ELSE

field\_new := field\_new || ',null';

end IF;

IF (:new.DBRQ is not NULL) THEN

field\_new := field\_new || ',to\_date('''||TO\_CHAR(:new.DBRQ, 'SYYYY-MM-DD HH24:MI:SS')||''',''SYYYY-MM-DD HH24:MI:SS'')';

ELSE

field\_new := field\_new || ',null';

end IF;

IF (:new.SLRQ is not NULL) THEN

field\_new := field\_new || ',to\_date('''||TO\_CHAR(:new.SLRQ, 'SYYYY-MM-DD HH24:MI:SS')||''',''SYYYY-MM-DD HH24:MI:SS'')';

ELSE

field\_new := field\_new || ',null';

end IF;

IF (:new.SLR is not NULL) THEN

field\_new := field\_new || ','''||:new.SLR||'''';

ELSE

field\_new := field\_new || ',null';

end IF;

IF (:new.ZXLX is not NULL) THEN

field\_new := field\_new || ','''||:new.ZXLX||'''';

ELSE

field\_new := field\_new || ',null';

end IF;

IF (:new.EXP\_TIME is not NULL) THEN

field\_new := field\_new || ','''||:new.EXP\_TIME||'''';

ELSE

field\_new := field\_new || ',null';

end IF;

IF (:new.EXP\_STATUS is not NULL) THEN

field\_new := field\_new || ','''||:new.EXP\_STATUS||'''';

ELSE

field\_new := field\_new || ',null';

end IF;

case

when inserting THEN

sqlval:='insert into scott.test(YWH ,BDCZH,BDCDYH ,QLR ,ZSLB ,ZL ,ZXYY ,DBR ,DBRQ,SLRQ,SLR,ZXLX , EXP\_TIME, EXP\_STATUS) values('''||:new.YWH||''','''||:new.BDCZH||''','''||:new.BDCDYH||''','||field\_new||');';

UTL\_FILE.put\_line(Out\_File,sqlval);

--sqlval1:='insert into scott.test(YWH ,BDCZH,BDCDYH ,QLR, ZSLB ,ZL ,ZXYY ,DBR ,DBRQ,SLRQ,SLR,ZXLX , EXP\_TIME, EXP\_STATUS) values('''||:new.YWH||''','''||:new.BDCZH||''','''||:new.BDCDYH||''','||field\_new||')';

--execute immediate sqlval1;

when DELETING THEN

sqlval := 'delete from scott.test WHERE YWH='''||:old.YWH||'''and BDCZH='''||:old.BDCZH||''' and BDCDYH='''||:old.BDCDYH||''''||field\_old||';';

UTL\_FILE.put\_line(Out\_File, sqlval);

--sqlval1 := 'delete from scott.test WHERE YWH='''||:old.YWH||'''and BDCZH='''||:old.BDCZH||''' and BDCDYH='''||:old.BDCDYH||''''||field\_old;

--execute immediate sqlval1;

when updating THEN

msg := 'delete from scott.test WHERE YWH='''||:old.YWH||'''and BDCZH='''||:old.BDCZH||''' and BDCDYH='''||:old.BDCDYH||''''||field\_old||';';

sqlval:='insert into GGUSER.test(YWH ,BDCZH,BDCDYH ,QLR ,ZSLB ,ZL ,ZXYY ,DBR ,DBRQ,SLRQ,SLR,ZXLX , EXP\_TIME, EXP\_STATUS) values('''||:new.YWH||''','''||:new.BDCZH||''','''||:new.BDCDYH||''','||field\_new||');';

UTL\_FILE.put\_line(Out\_File, msg);

UTL\_FILE.put\_line(Out\_File,sqlval);

--sqlval1 := 'delete from scott.test WHERE YWH='''||:old.YWH||'''and BDCZH='''||:old.BDCZH||''' and BDCDYH='''||:old.BDCDYH||''''||field\_old;

--execute immediate sqlval1;

--sqlval1:='insert into scott.test(YWH ,BDCZH,BDCDYH ,QLR, ZSLB ,ZL ,ZXYY ,DBR ,DBRQ,SLRQ,SLR,ZXLX , EXP\_TIME, EXP\_STATUS) values('''||:new.YWH||''','''||:new.BDCZH||''','''||:new.BDCDYH||''','||field\_new||')';

--execute immediate sqlval1;

end case;

END IF;

utl\_file.fclose(Out\_File);

EXCEPTION

WHEN others THEN

dbms\_output.put\_line(SQLERRM);

end;