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drop table ttl purge
/
create table ttl
( starttime number(6)
, result varchar2(2)
)
/
CREATE OR REPLACE FUNCTION GET_ATTIME1
( start_time IN NUMBER
) RETURN varchar2 IS
rs_time VARCHAR2(6) ;
BEGIN
if start_time = 80000 then rs_time:= '08:00';end if;
if start_time >= 80001 and start_time <= 90000 then rs_time:= '09:00';end if;
if start_time >= 90001 and start_time <= 100000 then rs_time:= '10:00';end if;
if start_time >= 100001 and start_time <= 110000 then rs_time:= '11:00';end if;
if start_time >= 110001 and start_time <= 120000 then rs_time:= '12:00';end if;
if start_time >= 120001 and start_time <= 130000 then rs_time:= '13:00';end if;
if start_time >= 130001 and start_time <= 140000 then rs_time:= '14:00';end if;
if start_time >= 140001 and start_time <= 150000 then rs_time:= '15:00';end if;
if start_time >= 150001 and start_time <= 160000 then rs_time:= '16:00';end if;
if start_time >= 160001 and start_time <= 170000 then rs_time:= '17:00';end if;
if start_time >= 170001 and start_time <= 180000 then rs_time:= '18:00';end if;
if start_time >= 180001 and start_time <= 190000 then rs_time:= '19:00';end if;
if start_time >= 190001 and start_time <= 200000 then rs_time:= '20:00';end if;
if start_time >= 200001 and start_time <= 210000 then rs_time:= '21:00';end if;
if start_time >= 210001 and start_time <= 220000 then rs_time:= '22:00';end if;
if start_time >= 220001 and start_time <= 230000 then rs_time:= '23:00';end if;
if (start_time >= 230001 and start_time <= 240000)
or start_time = 0 then rs_time:= 't0:00';end if;
if start_time >= 1 and start_time <= 10000 then rs_time:= 't01:00';end if;
if start_time >= 10001 and start_time <= 20000 then rs_time:= 't02:00';end if;
if start_time >= 20001 and start_time <= 30000 then rs_time:= 't03:00';end if;
if start_time >= 30001 and start_time <= 40000 then rs_time:= 't04:00';end if;
if start_time >= 40001 and start_time <= 50000 then rs_time:= 't05:00';end if;
if start_time >= 50001 and start_time <= 60000 then rs_time:= 't06:00';end if;
if start_time >= 60001 and start_time <= 70000 then rs_time:= 't07:00';end if;
if start_time >= 70001 and start_time < 80000 then rs_time:= 't08:00';end if;

RETURN rs_time;
end ;
/
CREATE OR REPLACE FUNCTION GET_ATTIME2
( start_time IN NUMBER
) RETURN varchar2 IS
rs_time VARCHAR2(6) ;
BEGIN
if start_time = 0 then
rs_time:= 't0:00';
elsif start_time <= 10000 then
rs_time:= 't01:00';
elsif start_time <= 20000 then
rs_time:= 't02:00';
elsif start_time <= 30000 then
rs_time:= 't03:00';
elsif start_time <= 40000 then
rs_time:= 't04:00';
elsif start_time <= 50000 then
rs_time:= 't05:00';
elsif start_time <= 60000 then
rs_time:= 't06:00';
elsif start_time <= 70000 then
rs_time:= 't07:00';
elsif start_time < 80000 then
rs_time:= 't08:00';
elsif start_time = 80000 then

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    rs_time:= '08:00';
elseif start_time <= 90000 then
    rs_time:= '09:00';
elseif start_time <= 100000 then
    rs_time:= '10:00';
elseif start_time <= 110000 then
    rs_time:= '11:00';
elseif start_time <= 120000 then
    rs_time:= '12:00';
elseif start_time <= 130000 then
    rs_time:= '13:00';
elseif start_time <= 140000 then
    rs_time:= '14:00';
elseif start_time <= 150000 then
    rs_time:= '15:00';
elseif start_time <= 160000 then
    rs_time:= '16:00';
elseif start_time <= 170000 then
    rs_time:= '17:00';
elseif start_time <= 180000 then
    rs_time:= '18:00';
elseif start_time <= 190000 then
    rs_time:= '19:00';
elseif start_time <= 200000 then
    rs_time:= '20:00';
elseif start_time <= 210000 then
    rs_time:= '21:00';
elseif start_time <= 220000 then
    rs_time:= '22:00';
elseif start_time <= 230000 then
    rs_time:= '23:00';
elseif start_time <= 240000 then
    rs_time:= 't0:00';
end if;

RETURN rs_time;
end ;
/
insert into ttl
select to_number( to_char ( trunc(sysdate) + dbms_random.value, 'hh24miss' ) )
, decode ( mod ( rownum, 2 ), 0, 'OK', 'NG' )
from dual
connect by level <= 500000
/
commit
/
set timi on
select get_attime1(starttime), count(*) cnt
from ttl
group by get_attime1(starttime)
/
/
/
select get_attime2(starttime), count(*) cnt
from ttl
group by get_attime2(starttime)
/
/
/
select (case when ( starttime < 80000 or starttime >= 230001) then 't' else null
end)
||to_char(mod(ceil( starttime/10000 ),24),'fm09')||':00'
, count(*) cnt
from ttl
group by (case when ( starttime < 80000 or starttime >= 230001) then 't' else
null end)

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        ||to_char(mod(ceil( starttime/10000 ),24),'fm09')||':00'
/
/
/
CREATE OR REPLACE FUNCTION GET_ATTTIME3
( start_time IN NUMBER
) RETURN varchar2 IS
BEGIN
    RETURN (case when ( start_time < 80000 or start_time >= 230001) then 't' else
null end)
        ||to_char(mod(ceil( start_time/10000 ),24),'fm09')||':00' ;
end ;
/
select get_atttime3(starttime), count(*) cnt
from ttl
group by get_atttime3(starttime)
/
/
/
CREATE OR REPLACE FUNCTION GET_ATTTIME4
( start_time IN NUMBER
) RETURN varchar2 deterministic IS
    rs_time VARCHAR2(6) ;
BEGIN
    if start_time = 0 then
        rs_time:= 't0:00';
    elsif start_time <= 10000 then
        rs_time:= 't01:00';
    elsif start_time <= 20000 then
        rs_time:= 't02:00';
    elsif start_time <= 30000 then
        rs_time:= 't03:00';
    elsif start_time <= 40000 then
        rs_time:= 't04:00';
    elsif start_time <= 50000 then
        rs_time:= 't05:00';
    elsif start_time <= 60000 then
        rs_time:= 't06:00';
    elsif start_time <= 70000 then
        rs_time:= 't07:00';
    elsif start_time < 80000 then
        rs_time:= 't08:00';
    elsif start_time = 80000 then
        rs_time:= '08:00';
    elsif start_time <= 90000 then
        rs_time:= '09:00';
    elsif start_time <= 100000 then
        rs_time:= '10:00';
    elsif start_time <= 110000 then
        rs_time:= '11:00';
    elsif start_time <= 120000 then
        rs_time:= '12:00';
    elsif start_time <= 130000 then
        rs_time:= '13:00';
    elsif start_time <= 140000 then
        rs_time:= '14:00';
    elsif start_time <= 150000 then
        rs_time:= '15:00';
    elsif start_time <= 160000 then
        rs_time:= '16:00';
    elsif start_time <= 170000 then
        rs_time:= '17:00';
    elsif start_time <= 180000 then
        rs_time:= '18:00';
    elsif start_time <= 190000 then
        rs_time:= '19:00';

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elseif start_time <= 200000 then
  rs_time:= '20:00';
elseif start_time <= 210000 then
  rs_time:= '21:00';
elseif start_time <= 220000 then
  rs_time:= '22:00';
elseif start_time <= 230000 then
  rs_time:= '23:00';
elseif start_time <= 240000 then
  rs_time:= 't0:00';
end if;

RETURN rs_time;
end ;
/
select get_attime4(starttime), count(*) cnt
from tt1
group by get_attime4(starttime)
/
/
/
create table tt2
as
select to_number( to_char ( trunc(sysdate) + level, 'hh24miss' ) ) starttime
, get_attime4(to_number( to_char ( trunc(sysdate) + level, 'hh24miss' ) ))
time_str
from dual
connect by level <= 24*60*60
/
select tt2.time_str, count(*)
from tt1, tt2
where tt1.starttime = tt2.starttime
group by tt2.time_str
/
/
/

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