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-- File name:    fix_sql_profile_hint.sql
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-- Purpose:      Replaces a hint in a sql profile.
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-- Author:       Kerry Osborne
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-- Usage:        This scripts prompts for three values.
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--                profile_name: the name of the profile to be modified
--
--                bad_hint: the hint to be replaced (cut and paste hint from listing
--                        using sql_profile_hints.sql)
--
--                good_hint: the hint to replace the bad_hint
--
-- Description:   This script was written because Oracle decided to start using a index
--                hints that don't specify the index name. This allows the optimizer a
--                great deal of flexibility, which is not desirable when you are trying
--                "lock" a plan.
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--                See kerryosborne.oracle-guy.com for additional information.
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--
-- WARNING: don't use this script if you don't know what you're doing!
--
accept profile_name -
    prompt 'Enter value for profile_name: ' -
    default 'X0X0X0X0'
accept bad_hint -
    prompt 'Enter value for bad_hint: ' -
    default '&%%&X0X0X0X0!.*&$5#'
accept good_hint -
    prompt 'Enter value for good_hint: ' -
    default ' '

declare
ar_profile_hints sys.sqlprof_attr;
cl_sql_text clob;
version varchar2(3);
l_category varchar2(30);
l_force_matching varchar2(3);
b_force_matching boolean;
begin
    select regexp_replace(version, '\. *') into version from v$instance;

if version = '10' then

    dbms_output.put_line('version: '||version);
    execute immediate -- to avoid 942 error
    'select replace(attr_val, '&bad_hint', '&good_hint') as outline_hints '||
    'from dba_sql_profiles p, sqlprof$attr h '||
    'where p.signature = h.signature '||
    'and name like ('&profile_name') '||
    'order by attr#'
    bulk collect
    into ar_profile_hints;

elseif version = '11' then

    dbms_output.put_line('version: '||version);
    execute immediate -- to avoid 942 error
    'select replace(hint, '&bad_hint', '&good_hint') as outline_hints '||
    'from (select p.name, p.signature, p.category, row_number() '||
    '      over (partition by sd.signature, sd.category order by sd.signature) row_num, '||
    '      extractValue(value(t), '/hint') hint '||
    'from sqlobj$data sd, dba_sql_profiles p, '||

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'      table(xmlsequence(extract(xmltype(sd.comp_data), '||
',                                     ''/outline_data/hint'')) t '||
'where sd.obj_type = 1 '||
'and p.signature = sd.signature '||
'and p.name like ('&&profile_name')) '||
'order by row_num'
bulk collect
into ar_profile_hints;

end if;

select
sql_text, category, force_matching
into
cl_sql_text, l_category, l_force_matching
from
dba_sql_profiles
where name like ('&&profile_name');

if l_force_matching = 'YES' then
    b_force_matching := TRUE;
else
    b_force_matching := FALSE;
end if;

dbms_sqltune.import_sql_profile(
sql_text => cl_sql_text
, profile => ar_profile_hints
, name => '&&profile_name'
, description => 'Warning: hints modified by fix_sql_profile_hint.sql'
, category => l_category
, force_match => b_force_matching
, replace => TRUE
, validate => TRUE
);
end;
/

undef profile_name
undef bad_hint
undef good_hint

```