

```

drop table t1;
drop table t2;

create table
  t1
( row_id number generated always as identity
, categ char(3) not null
, log_date date
, amount number
, discount number
, log_message varchar2(100))
;

insert into t1 (categ, log_date, amount, discount, log_message)
select
  case
    when mod(level,20) <11 then 'ABC'
    when mod(level,20) >10 then 'ACD'
  end as categ
, sysdate+level/24 as log_date
, level*100 as amount
, mod(level,10) as discount
, 'test record '||level as log_message
from dual
connect by level <=500000;

create table
  t2
(categ char(3) not null
, discount number
, adjustment number)
;

insert into t2
select
  case
    when mod(level,20) <11 then 'ABC'
    when mod(level,20) >10 then 'ACD'
  end as categ
, mod(level,10) as discount
, mod(dbms_random.random,100)/100 as adjustment
from dual
connect by level <=20;

execute dbms_stats.gather_table_stats(user,'T1');
execute dbms_stats.gather_table_stats(user,'T2');

```

```
/* Scenario 1 */
```

```
set serveroutput on  
declare
```

```
begin
```

```
for i in (select * from t1) loop  
  update t1  
  set amount=amount*(1+(Select adjustment from t2 where discount=i.discount  
    and categ=i.categ))  
  where row_id=i.row_id;  
end loop;  
commit;
```

```
end;  
/
```

```
/* Scenario 2 */
```

```
merge into t1  
  using t2  
on ( t1.discount=t2.discount and t1.categ=t2.categ)  
when matched then  
  update  
  set amount=amount*(1+t2.adjustment);  
commit;
```