

Question -4

/*By submitting this assignment for grading, I state or affirm that the work submitted is my own work and I did not in any way receive assistance nor provide assistance from another student (or external agent). I am aware and accept the consequences of unauthorized collaboration including a failing grade for both the homework and the course.

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create or replace PROCEDURE update_inventory ( v_numdays
number,v_sdc number,v_per float,v_venrev vendors.vendorid%type )
AS
CURSOR C1 IS SELECT distinct inventoryreport.itemid itemid FROM
rawmaterials,inventoryreport where rawmaterials.vendorid=v_venrev
and rawmaterials.itemid=inventoryreport.itemid and
reportdate>=to_Date((sysdate - v_numdays),'DD-MM-YY')
and reportdate<to_Date(sysdate,'DD-MM-YY');
v_rmid rawmaterials.itemid%type;
v_rmname rawmaterials.itemname%type;
counter number;
v_count number;
v_Sameday inventoryreport.ordersameday%type;
v_ordernextday inventoryreport.ordersameday%type;
v_orderlowline number;
v_orderhighline number;
v_avgtotorders float;
v_totalorders inventoryreport.ordersameday%type;
v_Desiredinvlevel rawmaterials.inventorylevel%type;

BEGIN
if not (v_numdays >=1 and v_numdays <=60) then
raise_application_error (-20100,'Incorrect parameter value for
numdays, value should be between 1 and 60');
elsif not (v_sdc >=1 and v_sdc<= v_numdays) then
raise_application_error (-20101,'Incorrect parameter value for sdc,
value should be between 1 and '||v_numdays);
end if;

for temp_rec in C1 loop
select count(*) into counter from inventoryreport where
itemid=temp_rec.itemid
and reportdate>=to_Date((sysdate - v_numdays),'DD-MM-YY')
and reportdate<to_Date(sysdate,'DD-MM-YY')
group by itemid
having count(*)>=v_sdc;

select count(*) into v_count from inventoryreport where
itemid=temp_rec.itemid
and reportdate>=to_Date((sysdate - v_numdays),'DD-MM-YY')
and reportdate<to_Date(sysdate,'DD-MM-YY')
and ordersameday>0;
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if (counter !=0) then

select sum(ordersameday) into v_Sameday from inventoryreport where
reportdate>=to_Date((sysdate - v_numdays), 'DD-MM-YY')
and reportdate<to_Date(sysdate, 'DD-MM-YY')
and itemid=temp_rec.itemid;

select sum(ordernextday) into v_ordernextday from inventoryreport
where reportdate>=to_Date((sysdate - v_numdays), 'DD-MM-YY')
and reportdate<to_Date(sysdate, 'DD-MM-YY')
and itemid=temp_rec.itemid;

v_totalorders:=v_Sameday+v_ordernextday;

select (v_totalorders/v_numdays) into v_avgtotorders from dual;

select round((1-v_per)*v_avgtotorders) into v_orderlowline from
dual;
select round((1+v_per)*v_avgtotorders) into v_orderhighline from
dual;

end if;

select inventorylevel,itemname into v_Desiredinvlevel,v_rmname from
rawmaterials where itemid=temp_rec.itemid;

if(v_count>v_Sdc) and (v_orderlowline>v_Desiredinvlevel) then

update rawmaterials set inventorylevel=v_orderlowline where
itemid=temp_rec.itemid;
dbms_output.put_line(v_rmname ||' Inventory Increased from '||
v_Desiredinvlevel ||' to '||v_orderlowline);

elsif (v_orderhighline<v_Desiredinvlevel) then
update rawmaterials set inventorylevel=v_orderhighline where
itemid=temp_rec.itemid;
dbms_output.put_line(v_rmname ||' Inventory Decreased from '||
v_Desiredinvlevel ||' to '||v_orderhighline);
else
dbms_output.put_line(v_rmname ||' no change');
end if;
end loop;
END update_inventory;
/

```