## Ouestion -3

/\*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 TRIGGER TRG_INVENTORYREPORT
  AFTER INSERT or update
  ON SALESORDERDETAIL
  FOR EACH ROW
  DECLARE
  v begininvlevel inventoryreport.beginninginventorylevel%type;
  v_endinginvlevel inventoryreport.endinginventorylevel%type;
  v_desiredinvlevel RAWMATERIALS.INVENTORYLEVEL%type;
  v_reportdate salesorders.duedate%type;
  v rmid FINISHEDGOODS.rmid%type;
  v rawmatneeded FINISHEDGOODS.rmguantity%type;
  counter number;
  counter 1 number;
  v_ordersameday inventoryreport.ordersameday%type;
  v_ordernextday inventoryreport.ordernextday%type;
select duedate into v reportdate from salesorders where
sono=:new.sono :
select rmid into v rmid from FINISHEDGOODS where itemid=:new.itemid;
select count(*) into counter from inventoryreport where
itemid=v rmid;
IF counter=0 then
select inventorylevel into v begininvlevel from rawmaterials where
itemid=v_rmid;
else
select ENDINGINVENTORYLEVEL into v_begininvlevel from
(select ENDINGINVENTORYLEVEL from inventoryreport where
reportdate<v reportdate and itemid=v rmid
order by reportdate desc) where rownum=1;
end if;
select rmquantity*:new.soquantity into v_rawmatneeded from
FINISHEDGOODS where itemid=:new.itemid;
select inventorylevel into v desiredinvlevel from rawmaterials where
itemid=v rmid;
if v rawmatneeded <= v begininvlevel then</pre>
v_ordersameday:=0;
v_ordernextday:=v_desiredinvlevel-(v_begininvlevel+v_ordersameday-
v rawmatneeded);
v endinginvlevel:=v begininvlevel+v ordersameday+v ordernextday-
```

```
v_rawmatneeded;
else
v_ordersameday:=v_rawmatneeded-v_begininvlevel;
v ordernextday:=v desiredinvlevel;
v endinginvlevel:=v begininvlevel+v ordersameday+v ordernextday-
v rawmatneeded;
end if;
select count(*) into counter_1 from inventoryreport where
itemid=v_rmid and reportdate=v_reportdate;
if counter_1=0 then
insert into inventory report
values(v_rmid, v_reportdate, v_begininvlevel, v_rawmatneeded, v_ordernex
tday, v_ordersameday, v_endinginvlevel);
else
update inventoryreport set
consumptionquantity=v_rawmatneeded,endinginventorylevel=v_endinginvl
evel, ordersameday=v_ordersameday,
ordernextday=v_ordernextday
where itemid=v_rmid and reportdate=v_reportdate;
end if;
END TRG_INVENTORYREPORT;
```