**In-class Exercise**

1- (50 points) Write a procedure that insert paid invoices from **paid\_invoices table** into the **invoice\_archive** **table**. Only those paid invoices that are older than or equal to 31-05-2014 should be transferred. Those transferred invoices should be **deleted** from paid\_invoices table.

Execute the procedure and:

Submit the code of the procedure

“create or replace procedure archive\_invoices

as

cursor transfer\_cursor is

select \* from paid\_invoices where

invoice\_date <= to\_date('31-05-2014','dd-mm-yyyy');

transfer\_row transfer\_cursor%rowtype;

begin

for transfer\_row in transfer\_cursor loop

insert into invoice\_archive values (transfer\_row.INVOICE\_ID,

transfer\_row.VENDOR\_ID, transfer\_row.INVOICE\_NUMBER, transfer\_row.INVOICE\_DATE,

transfer\_row.INVOICE\_TOTAL, transfer\_row.PAYMENT\_TOTAL, transfer\_row.CREDIT\_TOTAL,

transfer\_row.TERMS\_ID, transfer\_row.INVOICE\_DUE\_DATE, transfer\_row.PAYMENT\_DATE);

delete from paid\_invoices where (transfer\_row.Invoice\_id = paid\_invoices.Invoice\_id);

end loop;

end;”

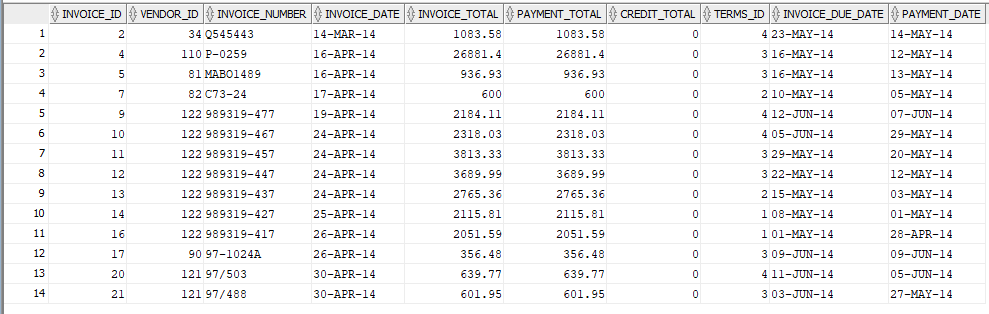
“execute archive\_invoices;”

Submit the result of the following queries:

Select count(\*) from invoice\_archive;



Select \* from invoice\_archive where rownum<15;



2- (50 points) Create a trigger named invoice\_update that is fired before the UPDATE operation of invoice\_total column of invoices table. The trigger simply displays the vendor ID , old invoice\_total and new invoice\_total whenever the invoice\_total is updated.

Submit the code of the trigger and the screenshot for two test cases results:

“SET SERVEROUTPUT ON;

CREATE OR REPLACE TRIGGER invoice\_update BEFORE

UPDATE OF invoice\_total ON invoices

FOR EACH ROW

BEGIN

dbms\_output.put\_line('Vendor ID: ' || :old.vendor\_id);

dbms\_output.put\_line('Old Invoice Total: ' || :old.invoice\_total);

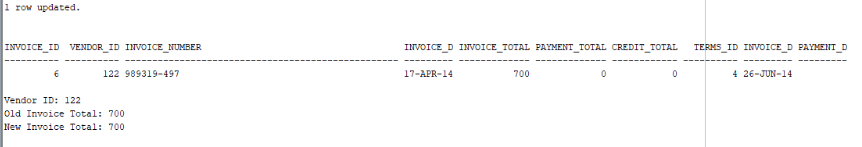
dbms\_output.put\_line('New Invoice Total: ' || :new.invoice\_total);

END;”

“set serveroutput on;

update invoices set invoice\_total = 700 where invoice\_id = 6;

Select \* from invoices where invoice\_id = 6;”



“set serveroutput on;

Update invoices set invoice\_total = 3211 where invoice\_id = 18;

Select \* from invoices where invoice\_id = 18;”

