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Mid-Term Exam   
COMP214 – 008  
Fall 2022

This is an open-book test, and you can use any resources (e.g., lecture notes, examples, your assignments, etc.) that you feel may help. However you are not allowed to communicate with anyone during the test. Please keep in mind that you are responsible for securing your own code. You will be penalized if another person has your code, or similar with your code.

Instructions: **Be sure to read the following general instructions carefully**:

* This test must be completed individually by all students
* Submit your solution **through Quiz system**. You must name your submission according to the following rule: **studentID(yourlastname)\_MidTerm.doc**
* You are given a database to be used for the questions.

**Questions[ 20 marks]**

1. List each donor who has made a pledge and indicated a single lump sum payment. Include first name, last name, pledge date, and pledge amount.

SELECT Firstname, Lastname, Pledfedate, Pledgeamt,

(SELECT sum(Payamt) FROM DD\_Payment b WHERE a.idPledge=b.idPledge)

FROM DD\_Pledge a, DD\_Donor;

1. List each donor who has made a pledge and indicated monthly payments over one year.Include first name, last name, pledge date, and pledge amount. Also, display the monthlypayment amount. (Equal monthly payments are made for all pledges paid in monthlypayments.)

SELECT Firstname, Lastname, Pledfedate, Pledgeamt,

From DD\_Donor, DD\_Pledge

WHERE( (paymonths > 12)&&(Firstpledge== ‘Y’ )) ;

3. Create a PL/SQL block that retrieves and displays information for a specific project based onProject ID. Display the following on a single row of output: project ID, project name, number ofpledges made, total dollars pledged, and the average pledge amount.

DECLARE

Lv\_idProj\_num NUMER(6);

Lv\_Projname\_var VARCHAR2(60);

Lv\_Pledgeamt\_num NUMBER(8,2);

Lv\_Payamt\_num NUMBER(8,2);

Lv\_avePledgeamt DD\_Project.Pledgeamt%TYPE;

BEGIN

SELECT idProj, Projname, Pledgamt, Payamt

INTO Lv\_idProj\_num, Lv\_Projname\_var, Lv\_Pledgeamt\_num, Lv\_Payamt\_num

FROM DD\_Project, DD\_Pledge;

Lv\_avgPledgamt:= AVG( Lv\_Payamt\_num / Lv\_Pledgeamt\_num );

DBMS\_OUTPUT.PUT\_LINE(‘Project ID: ’|| Lv\_idProj\_num|| ‘Project Name:’ || Lv\_Projname\_var || ‘Number of Pledges made: ’ || Lv\_Pledgeamt\_num || ‘Average Pledge Amount: ’ || Lv\_avePledgeamt );

END;

1. Create a block to retrieve and display pledge and payment information for a specific donor. Foreach pledge payment from the donor, display the pledge ID, pledge amount, number of monthlypayments, payment date, and payment amount. (Use Explicit Cursor)

DECLARE

d\_ id DD\_Pledge.idPledge%TYPE;

d\_ Pledgeamt DD\_Pledge.Pledgeamt%TYPE;

d\_ months DD\_Pledge.paymonths%TYPE;

d\_ Payamt DD\_Payment.Payamt%TYPE;

d\_ Paydate DD\_Payment.Paydate%TYPE;

CURSOR donor\_Info IS

SELECT idPledge, Pledgeamt, paymonths, Payamt, Paydate

FROM DD\_Pledge, DD\_Payment

BEGIN

OPEN donor\_Info;

LOOP

FETCH donor\_Info into

EXIT WHEN donor\_info%notfound;

DBMS\_OUTPUT.PUT\_LINE(“” || “” );

END LOOP;

CLOSE donor\_Info;

END;

5. Create a procedure namedDDPAY\_SPthat identifies whether a donor currently has an active pledgewith monthly payments. A donor ID is the input to the procedure. Using the donor ID, the procedureneeds to determine whether the donor has any currently active pledges based on the status fieldand is on a monthly payment plan.