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10-17-16

CSCI 411

Homework 2

Problem B:

**A:**

create or replace PROCEDURE avgFee (s IN CHAR)

AS

num FLOAT;

BEGIN

  num := 0;

  Select AVG(CAST (Ex.fee AS FLOAT))

  INTO num

  FROM Examine Ex

  INNER JOIN Dogs D

  ON D.did = Ex.did

  WHERE d.DogName = s;

  DBMS\_OUTPUT.PUT\_LINE('Average Fee = '|| num);

  DBMS\_OUTPUT.PUT\_LINE('For Dog = '||s);

END;

OUTPUT:

SQL> EXEC avgFee ('Spot');

Average Fee = 21.66666666666666666666666666666666666667

For Dog = Spot

PL/SQL procedure successfully completed.

SQL> Exec avgFee ('Fido');

Average Fee = 41.25

For Dog = Fido

PL/SQL procedure successfully completed.

SQL> EXEC avgFee 9 ('Tiger');

Average Fee = 25

For Dog = Tiger

**B:**

CREATE PROCEDURE loc (s IN CHAR)

AS

locNameTemp CHAR(20);

CURSOR Towns IS Select DISTINCT L.locName

                FROM Veterinarians V, Examine Ex, Location L

                WHERE V.licenseNum = Ex.LicenseNum AND Ex.lid = L.lid

                AND V.vetName = s ;

begin

  DBMS\_OUTPUT.PUT\_LINE(s);

  DBMS\_OUTPUT.PUT\_LINE('Performed Examinations at: ');

  OPEN Towns;

  loop

    fetch Towns INTO locNameTemp;

    if Towns%NOTFOUND then

      exit;

    end if;

    DBMS\_OUTPUT.PUT\_LINE(locNameTemp);

  end loop;

  close Towns;

END;

OUTPUT:

SQL> EXEC loc ('Alice');

Alice

Performed Examinations at:

Minneapolis

St. Cloud

PL/SQL procedure successfully completed.

SQL> EXEC loc ('Mary');

Mary

Performed Examinations at:

Minneapolis

Duluth

St. Cloud

PL/SQL procedure successfully completed.

SQL> EXEC loc ('Ju im');

Jim

Performed Examinations at:

Duluth

St. Cloud

PL/SQL procedure successfully completed.

5.2

**5:**

 --5.2.5

 Select Distinct C1.sid

 FROM Catalog C1,

    (Select C.pid, AVG(C.cost) AvgCost

     FROM Catalog C

     GROUP BY C.pid) Temp

  WHERE C1.pid = Temp.pid

  AND C1.cost > Temp.avgCost;

OUTPUT:

SID

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1

6

2

3

--5.2.8

Select S1.sid

FROM Suppliers S1, Catalog C1, Parts P1

WHERE S1.sid = C1.sid AND C1.pid = P1.pid

AND P1.color = 'Red'

INTERSECT

Select S2.sid

FROM Suppliers S2, Catalog C2, Parts P2

WHERE S2.sid = C2.sid AND C2.pid = P2.pid

AND P2.color = 'Green';

OUTPUT:

SID

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3

--5.2.10

Select S.sname, Temp1.numParts

FROM Suppliers S,

  (Select Count(C1.pid) numParts, C1.sid

   FROM Catalog C1

   GROUP BY C1.sid) Temp1

   --,  () Temp2

WHERE S.sid = Temp1.sid

      AND S.sid NOT IN (

        Select Temp3.sid

        FROM (Select Distinct C.sid

              FROM Catalog C, Parts P

              WHERE C.pid = P.pid

              AND P.color <> 'Green') Temp3

      );

OUTPUT:

SNAME NUMPARTS

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OnlyGreen 1