**Cursors**

1.Calculate Interest for Fixed Deposit Amount Using Cursors.

set intrest as 0 and then update it using the program.

set 10% intrest for amount less than or equal to 1000.

20% for more then 1000 to 5000.

30% for above 5000.

SQL> create table fd (accno number(20),years number(20),amount number(20),interest number(20));

Table created.

SQL> insert into fd values(&accno,&years,&amount,&interest);

Enter value for accno: 100

Enter value for years: 3

Enter value for amount: 2500

Enter value for interest: 5

old 1: insert into fd values(&accno,&years,&amount,&interest)

new 1: insert into fd values(100,3,2500,5)

1 row created.

SQL> /

Enter value for accno: 101

Enter value for years: 2

Enter value for amount: 6000

Enter value for interest: 6

old 1: insert into fd values(&accno,&years,&amount,&interest)

new 1: insert into fd values(101,2,6000,6)

1 row created.

SQL> /

Enter value for accno: 102

Enter value for years: 5

Enter value for amount: 300

Enter value for interest: 9

old 1: insert into fd values(&accno,&years,&amount,&interest)

new 1: insert into fd values(102,5,300,9)

1 row created.

SQL> select \* from fd;

ACCNO YEARS AMOUNT INTEREST

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100 3 2500 5

101 2 6000 6

102 5 300 9

SQL> declare

2 cursor c1 is select \* from fd;

3 begin

4 for i in c1

5 loop

6 if i.amount<=1000 then

7 update fd set interest=i.amount\*.01 where accno=i.accno;

8 elsif i.amount>1000 and i.amount<=6000 then

9 update fd set interest=i.amount\*.02 where accno=i.accno;

10 else

11 update fd set interest=i.amount\*03 where accno=i.accno;

12 end if;

13 end loop;

14 end;

15 /

PL/SQL procedure successfully completed.

SQL> select \* from fd;

ACCNO YEARS AMOUNT INTEREST

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100 3 2500 50

101 2 6000 120

102 5 300 3

2. Calculate Electricity Bill Using Cursors

SQL> create table ebill(ebno number(20) primary key,name varchar(20),eunit number(20),echarge float)

;

Table created.

SQL> insert into ebill values(&eb,'&name',&eunit,&echarge);

Enter value for eb: 100

Enter value for name: vishnu

Enter value for eunit: 300

Enter value for echarge: 6.5

old 1: insert into ebill values(&eb,'&name',&eunit,&echarge)

new 1: insert into ebill values(100,'vishnu',300,6.5)

1 row created.

SQL> /

Enter value for eb: 101

Enter value for name: naveen

Enter value for eunit: 250

Enter value for echarge: 362

old 1: insert into ebill values(&eb,'&name',&eunit,&echarge)

new 1: insert into ebill values(101,'naveen',250,362)

1 row created.

SQL> /

Enter value for eb: 102

Enter value for name: gopika

Enter value for eunit: 2.3

Enter value for echarge: 250

old 1: insert into ebill values(&eb,'&name',&eunit,&echarge)

new 1: insert into ebill values(102,'gopika',2.3,250)

1 row created.

SQL> select \* from ebill

2 ;

EBNO NAME EUNIT ECHARGE

---------- -------------------- ---------- ----------

100 vishnu 300 6.5

101 naveen 250 362

102 gopika 2 250

SQL> declare

2 cursor cbill is select \* from ebill;

3 begin

4 for i in cbill

5 loop

6 if i.eunit<=100 then

7 update ebill set echarge =i.eunit\*.01 where ebno=i.ebno;

8 elsif i.eunit>=100 and i.eunit<=200 then

9 update ebill set echarge=i.eunit\*.02 ;

10 else

11 update ebill set echarge=i.eunit\*.03 ;

12 end if;

13 end loop;

14 end;

15 /

PL/SQL procedure successfully completed.

OUTPUT:

EBNO NAME EUNIT ECHARGE

---------- -------------------- ---------- ----------

100 vishnu 300 7.5

101 naveen 250 7.5

102 gopika 2 .02

3.Write PL/SQL code to UPDATE values in created tables by using Implicit Cursors.

SQL> create table dhemp(id number primary key,ename varchar(20),esalary float);

Table created.

SQL> insert into dhemp values(&id,'&name',&esalary);

Enter value for id: 100

Enter value for name: VISHNU

Enter value for esalary: 2000

old 1: insert into dhemp values(&id,'&name',&esalary)

new 1: insert into dhemp values(100,'VISHNU',2000)

1 row created.

SQL> /

Enter value for id: 102

Enter value for name: FAYAZ

Enter value for esalary: 3020

old 1: insert into dhemp values(&id,'&name',&esalary)

new 1: insert into dhemp values(102,'FAYAZ',3020)

1 row created.

SQL> /

Enter value for id: 105

Enter value for name: GAUAGG

Enter value for esalary: 556

old 1: insert into dhemp values(&id,'&name',&esalary)

new 1: insert into dhemp values(105,'GAUAGG',556)

1 row created.

SQL> SELECT \* FROM DHEMP;

ID ENAME ESALARY

---------- -------------------- ----------

100 VISHNU 2000

102 FAYAZ 3020

105 GAUAGG 556

SQL> declare

2 rowno number(20);

3 begin

4 update dhemp set esalary=esalary+200;

5 if sql%notfound then

6 dbms\_output.put\_line('no salary updated');

7 elsif sql%found then

8 rowno:=sql%rowcount;

9 dbms\_output.put\_line('salary for'||rowno||'employees updated');

10 end if;

11 end;

12 /

PL/SQL procedure successfully completed.

SQL> set serveroutput on;

SQL> /

salary for3employees updated

PL/SQL procedure successfully completed.

SQL> SELECT \* FROM DHEMP

2 ;

ID ENAME ESALARY

---------- -------------------- ----------

100 VISHNU 2400

102 FAYAZ 3420

105 GAUAGG 956

SQL>

4.Given the table works(emp\_id,company\_name,salary).write a cursor to

select the three highest paid employees from the table.

SQL> create table work(emp\_id int primary key,emp\_name varchar(50),salary int);

Table created.

SQL> insert into work values(&id,'&name',&salary);

Enter value for id:

Enter value for name:

Enter value for salary:

old 1: insert into work values(&id,'&name',&salary)

new 1: insert into work values(,'',)

insert into work values(,'',)

\*

ERROR at line 1:

ORA-00936: missing expression

SQL> /

Enter value for id: 1

Enter value for name: fayaz

Enter value for salary: 1000

old 1: insert into work values(&id,'&name',&salary)

new 1: insert into work values(1,'fayaz',1000)

1 row created.

SQL> /

Enter value for id: 2

Enter value for name: vishnu

Enter value for salary: 2000

old 1: insert into work values(&id,'&name',&salary)

new 1: insert into work values(2,'vishnu',2000)

1 row created.

SQL> /

Enter value for id: 3

Enter value for name: gops

Enter value for salary: 3000

old 1: insert into work values(&id,'&name',&salary)

new 1: insert into work values(3,'gops',3000)

1 row created.

SQL> /

Enter value for id: 4

Enter value for name: aathi

Enter value for salary: 6000

old 1: insert into work values(&id,'&name',&salary)

new 1: insert into work values(4,'aathi',6000)

1 row created.



SQL> declare

2 i int:=0;

3 cursor c3 is select \* from work order by salary desc;

4 r c3%rowtype;

5 begin

6 dbms\_output.put\_line('3 HIGHEST PAID EMPLOYEES ARE');

7 open c3;

8 loop

9 exit when i=3;

10 fetch c3 into r;

11 dbms\_output.put\_line(chr(10)||r.emp\_id||' '||r.emp\_name||' '||r.salary);

12 i:=i+1;

13 end loop;

14 close c3;

15 end;

16 /

3 HIGHEST PAID EMPLOYEES ARE

4 aathi 6000

3 gops 3000

2 vishnu 2000

PL/SQL procedure successfully completed.