

Cursors

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.

declare

cursor c is select * from BANK;

begin

for i in c

loop

if i.Amount<=1000 then

update BANK set interest=i.Amount*0.1 where ACCNo=i.ACCno;

elsif i.Amount>1000 and i.Amount<=5000 then

update BANK set interest=i.Amount*0.2 where ACCNo=i.ACCno;

else

update BANK set interest=i.Amount*0.3 where ACCNo=i.ACCno;

end if;

end loop;

end;

/

```

SQL> declare
  2 cursor c is select * from BANK;
  3 begin
  4 for i in c
  5 loop
  6 if i.Amount<=1000 then
  7 update BANK set interest=i.Amount*0.1 where ACCNo=i.ACCno;
  8 elsif i.Amount>1000 and i.Amount<=5000 then
  9 update BANK set interest=i.Amount*0.2 where ACCNo=i.ACCno;
 10 else
 11 update BANK set interest=i.Amount*0.3 where ACCNo=i.ACCno;
 12 end if;
 13 end loop;
 14 end;
 15 /

```

PL/SQL procedure successfully completed.

```
SQL> select * from bank;
```

	ACCNO	CUST_NAME	AMOUNT	INTEREST
1		R K Gupta	600	60
2		Shanna	1200	240
3		Manu	7000	2100
4		Raju	2500	500
5		Manju	900	90

2. Calculate Electricity Bill Using Cursors

```
declare
```

```
cursor c is select * from bills;
```

```
begin
```

```
for i in c
```

```
loop
```

```
if i.unit<=100 then
```

```
update bills set charge=i.unit*0.1 where bno=i.bno;
```

```

elsif i.unit>100 and i.unit<=200 then

update bills set charge=i.unit*0.2 where bno=i.bno;

else

update bills set charge=i.unit*0.3 where bno=i.bno;

end if;

end loop;

end;

/

```

```

SQL> declare
2  cursor c is select * from bills;
3  begin
4  for i in c
5  loop
6  if i.unit<=100 then
7  update bills set charge=i.unit*0.1 where bno=i.bno;
8  elsif i.unit>100 and i.unit<=200 then
9  update bills set charge=i.unit*0.2 where bno=i.bno;
10 else
11 update bills set charge=i.unit*0.3 where bno=i.bno;
12 end if;
13 end loop;
14 end;
15 /

```

PL/SQL procedure successfully completed.

```
SQL> select * from bills;
```

	BNO NAME	UNIT	CHARGE
1	Gipta	300	90
2	Shanna	80	8
3	Manu	700	210
4	Raju	150	30
5	Manju	400	120

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

```
set serveroutput on;

declare

rowno number(20);

begin

update comp set salary=salary+1000;

if sql%notfound then

dbms_output.put_line('No amount updated');

elsif sql%found then

dbms_output.put_line('employee salary updated');

rowno:=sql%rowcount;

end if;

end;

/
```

```
SQL> set serveroutput on;
SQL> declare
  2 rowno number(20);
  3 begin
  4 update comp set salary=salary+1000;
  5 if sql%notfound then
  6 dbms_output.put_line('No amount updated');
  7 elsif sql%found then
  8 dbms_output.put_line('employee salary updated');
  9 rowno:=sql%rowcount;
 10 end if;
 11 end;
 12 /
employee salary updated
```

PL/SQL procedure successfully completed.

```
SQL> select * from comp;
```

	EID	ENAME	SALARY
1	Gipta		1300
2	Shanna		1000
3	Manu		1700
4	Raju		1150
5	Manju		1400

4. Given the table works(emp_id, company_name, salary). write a cursor to select the three highest paid employees from the table.

```
set serveroutput on;
```

```
declare
```

```
cursor c is select * from (select * from work order by salary desc) where rownum <= 3;
```

```
r c%rowtype;
```

```
begin
```

```
open c;
```

```
loop
```

```
fetch c into r;
```

```
exit when c %notfound;
```

```
dbms_output.put_line(r.empid||' '||r.companyname||' '||r.salary);
```

```
end loop;
```

```
end;
```

```
/
```

```
SQL> set serveroutput on;
```

```
SQL> declare
```

```
2 cursor c is select * from (select * from work order by salary desc) where rownum <= 3;
```

```
3 r c%rowtype;
```

```
4 begin
```

```
5 open c;
```

```
6 loop
```

```
7 fetch c into r;
```

```
8 exit when c %notfound;
```

```
9 dbms_output.put_line(r.empid||' '||r.companyname||' '||r.salary);
```

```
10 end loop;
```

```
11 end;
```

```
12 /
```

```
2 MRF 80000
```

```
5 EKM 40000
```

```
1 NGS 30000
```

PL/SQL procedure successfully completed.