

# Cursors

## 1. Calculate Interest for Fixed Deposit Amount Using Cursors.

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

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

20% for more than 1000 to 5000.

30% for above 5000.

```
create table fd (accno number(20),years number(20),amount number(20),interest
number(20)); insert into fd values(&accno,&years,&amount,&interest);
```

Enter value for accno: 101

Enter value for years: 2

Enter value for amount: 1000

Enter value for interest: 9

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

new 1: insert into fd values(101,2,1000,9)

```
declare
```

```
cursor c1 is select * from fd;
```

```
begin
```

```
for i in c1
```

```
loop
```

```
if i.amount<=1000 then
```

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

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

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

```
else
```

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

```

end if;
end loop;

end;

/

```

## OUTPUT

### Initial Table

```
SQL> select * from fd;
```

ACCNO	YEARS	AMOUNT	INTEREST
101	2	1000	9
102	3	2000	11
103	4	4000	12
104	5	5000	15

### Result

```
SQL> select * from fd;
```

ACCNO	YEARS	AMOUNT	INTEREST
101	2	1000	10
102	3	2000	40
103	4	4000	80
104	5	5000	100

## 2. Calculate Electricity Bill Using Cursors.

set charges if units<=100 AS 10%

unit>100 and less than=200 as 20%

else 30%

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

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

```
EBNO NAME EUNIT ECHARGE
```

```
-----
```

```
100 Nishan 150 6.6
```

```
101 sreerag 220 6.6
```

```
103 Abhiram 3 .03
```

```
declare
```

```

cursor cbill is select * from ebill;

begin
for i in cbill
loop
if i.eunit<=100 then
update ebill set echarge =i.eunit*.01 where ebno=i.ebno;
elsif i.eunit>=100 and i.eunit<=200 then
update ebill set echarge=i.eunit*.02 ;
else
update ebill set echarge=i.eunit*.03 ;
end if;
end loop;
end;
/

```

## OUTPUT

EBNO	NAME	EUNIT	ECHARGE
------	------	-------	---------

-----

100	Nishan	150	6.6
-----	--------	-----	-----

101	sreerag	220	6.6
-----	---------	-----	-----

103	Abhiram	3	.03
-----	---------	---	-----

## 3.

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

Table created.

```
insert into dhemp values(&id,&name',&esalary);
Enter value for id: 101
```

Enter value for name: gopika

Enter value for esalary: 20000

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

new 1: insert into dhemp values(101,'gopika',20000)

1 row created.

select \* from dhemp;

ID	ENAME	ESALARY
----	-------	---------

101	gopika	20000
-----	--------	-------

102	sisra	10000
-----	-------	-------

103	sreerag	25000
-----	---------	-------

104	girish	7000
-----	--------	------

declare

rowno number(20);

begin

update dhemp set esalary=esalary+200;

if sql%notfound then

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

elsif sql%found then

rowno:=sql%rowcount;

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

end if;

end;

/

set serveroutput on;

/

## **OUTPUT**

salary for 4 employees updated

procedure successfully

completed.