

1)Declare

```
CURSOR det_employee IS

SELECT * FROM EMPLOYEE ;

BEGIN

    FOR emp_rec IN det_employee LOOP

        dbms_output.Put_line('ID: ' || emp_rec.empid || 'name '
|| emp_rec.empname || 'job: ' || emp_rec.job || 'department number: '
|| emp_rec.deptno || 'manager: ' || emp_rec.manager || 'salary: '
|| emp_rec.sal);

    END LOOP;

END;

/
```

```
SQL> Declare
 2  CURSOR det_employee IS
 3  SELECT * FROM EMPLOYEE ;
 4  BEGIN
 5  FOR emp_rec IN det_employee LOOP
 6  dbms_output.Put_line('ID: ' || emp_rec.empid || 'name ' || emp_rec.empname || 'job: ' || emp_rec.j
ob || 'department number: ' || emp_rec.deptno || 'manager: ' || emp_rec.manager || 'salary: ' || emp_rec.
sal);
 7  END LOOP;
 8  END;
 9  /
ID: E0001name Abeyjob: Testerdepartment number: D004manager: E0004salary: 30000
ID: E0002name Jestojob: Analystdepartment number: D002manager: E0001salary: 25000
ID: E0003name Adarshjob: Clerkdepartment number: D004manager: E0004salary: 20000
ID: E0004name Kevinjob: Admindepartment number: D002manager: E0005salary: 20000
ID: E0005name Bonyjob: Managerdepartment number: D001manager: salary: 50000
ID: E0006name Manujob: Supplierdepartment number: D003manager: E0001salary: 5000

PL/SQL procedure successfully completed.
```

2] create table person(fname varchar(20),lname varchar(20),person_id number);

Insert into person values('Noah','Centineo',48);

Insert into person values('Zayn','Malik',55);

Insert into person values('Selena','Gomez',51);

Insert into person values('Gigi','Hadid',47);

```

DECLARE

    CURSOR disp_name IS

        SELECT fname,lname from person WHERE person_id>50;

BEGIN

    FOR i IN disp_name LOOP

        dbms_output.Put_line(i.fname||' '||i.lname);

    END LOOP;

END;

/

```

```

SQL> DECLARE
  2  CURSOR disp_name IS
  3  SELECT fname,lname from person WHERE person_id>50;
  4  BEGIN
  5  FOR i IN disp_name LOOP
  6  dbms_output.Put_line(i.fname||' '||i.lname);
  7  END LOOP;
  8  END;
  9  /
Zayn Malik
Selena Gomez

```

PL/SQL procedure successfully completed.

Commit complete.

3) DECLARE

```

my_record employee %ROWTYPE;

CURSOR c1 (max_wage NUMBER) IS

    SELECT * FROM employee WHERE sal< max_wage;

```

BEGIN

```

OPEN c1(200000);

```

LOOP

```

    FETCH c1 INTO my_record;

```

```

EXIT WHEN c1%NOTFOUND;

DBMS_OUTPUT.PUT_LINE('Name = ' || my_record.empname || ', salary = '

|| my_record.sal);

END LOOP;

CLOSE c1;

END;

/

SQL> DECLARE
2   my_record  employee %ROWTYPE;
3   CURSOR c1 (max_wage NUMBER) IS
4       SELECT * FROM employee WHERE sal < max_wage;
5   BEGIN
6       OPEN c1(200000);
7       LOOP
8           FETCH c1 INTO my_record;
9           EXIT WHEN c1%NOTFOUND;
10          DBMS_OUTPUT.PUT_LINE('Name = ' || my_record.empname || ', salary = '
11              || my_record.sal);
12      END LOOP;
13      CLOSE c1;
14  END;
15  /
Name = Abey, salary = 30000
Name = Jestu, salary = 25000
Name = Adarsh, salary = 20000
Name = Kevin, salary = 20000
Name = Bony, salary = 50000
Name = Manu, salary = 50000

```

PL/SQL procedure successfully completed.

Commit complete.

4) create table accmaster(acc_no number, name varchar(20), balance number);

Create table acctrans(acc_no number, trans_date date, deb_cred number, amount number, processed number);

Insert into accmaster values('1', 'Centineo', 15000);

Insert into accmaster values('2', 'Zayn', 32000);

Insert into accmaster values('3', 'Sara', 51000);

Insert into accmaster values('4', 'Selina', 29000);

Insert into acctrans values('1', '20-jan-2023', 0, 50000, 1);

```
Insert into acctran values('2','25-jan-2023', 0,50000,0);
```

```
Insert into acctran values('3','28-jan-2023', 1,50000,0);
```

```
Insert into acctran values('4','2-jan-2023', 1,50000,1);
```

```
DECLARE
```

```
    CURSOR t1 IS
```

```
        SELECT acctran.acc_no,deb_cred,amount,processed,balance
```

```
        FROM acctran inner join accmaster on acctran.acc_no = accmaster.acc_no
```

```
        where processed LIKE '0';
```

```
        trecord t1%ROWTYPE;
```

```
        newbal number;
```

```
BEGIN
```

```
    OPEN t1;
```

```
    LOOP
```

```
        FETCH t1 INTO trecord;
```

```
        EXIT WHEN t1%NOTFOUND;
```

```
        update acctran set processed='1';
```

```
        if (trecord.deb_cred = '1')
```

```
            then
```

```
                newbal:=trecord.balance+trecord.amount;
```

```
                update accmaster set balance=newbal where trecord.acc_no=accmaster.acc_no ;
```

```
                dbms_output.put_line(trecord.balance);
```

```
        else
```

```
                newbal:=trecord.balance-trecord.amount;
```

```
                update accmaster set balance=newbal where trecord.acc_no=accmaster.acc_no ;
```

```
                dbms_output.put_line(trecord.balance);
```

end if;

END LOOP;

CLOSE t1;

END;

/

Commit complete.

SQL> DECLARE

```
2     CURSOR t1 IS
3     SELECT acctran.acc_no,deb_cred,amount,processed,balance
4     FROM acctran inner join accmaster on acctran.acc_no = accmaster.acc_no
5     where processed LIKE '0';
6     trecord t1%ROWTYPE;
7     newbal number;
8 BEGIN
9     OPEN t1;
10    LOOP
11    FETCH t1 INTO trecord;
12    EXIT WHEN t1%NOTFOUND;
13    update acctran set processed='1';
14    if (trecord.deb_cred = '1')
15    then
16        newbal:=trecord.balance+trecord.amount;
17        update accmaster set balance=newbal where trecord.acc_no=accmaster.acc_no ;
18        dbms_output.put_line(trecord.balance);
19    else
20        newbal:=trecord.balance-trecord.amount;
21        update accmaster set balance=newbal where trecord.acc_no=accmaster.acc_no ;
22        dbms_output.put_line(trecord.balance);
23    end if;
24    END LOOP;
25    CLOSE t1;
26 END;
27 /
32000
51000
```

PL/SQL procedure successfully completed.

Commit complete.

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Commit complete.

SQL> DECLARE

```
2     CURSOR t1 IS
3     SELECT acctran.acc_no,deb_cred,amount,processed,balance
4     FROM acctran inner join accmaster on acctran.acc_no = accmaster.acc_no
5     where processed LIKE '0';
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8 BEGIN
9     OPEN t1;
10    LOOP
11    FETCH t1 INTO trecord;
12    EXIT WHEN t1%NOTFOUND;
13    update acctran set processed='1';
14    if (trecord.deb_cred = '1')
15    then
16        newbal:=trecord.balance+trecord.amount;
17        update accmaster set balance=newbal where trecord.acc_no=accmaster.acc_no ;
18        dbms_output.put_line(trecord.balance);
19    else
20        newbal:=trecord.balance-trecord.amount;
21        update accmaster set balance=newbal where trecord.acc_no=accmaster.acc_no ;
22        dbms_output.put_line(trecord.balance);
23    end if;
24    END LOOP;
25    CLOSE t1;
26 END;
27 /
32000
51000
```

PL/SQL procedure successfully completed.

Commit complete.
