```
Experiment 8
#8.1
create table employee(empid varchar2(20) primary key, empname varchar2(20), job
varchar2(10), manager varchar2(20), deptno varchar2(20), hiredate date, Comm number(5), sal
number(7);
Insert into employee values ('E0001', 'Abey', 'Tester', 'E0004', 'D004', '15-DEC-2012', 525,
30000);
Insert into employee values ('E0002', 'Jesto', 'Analyst', 'E0001', 'D002', '24-apr-2011', 683,
25000);
Insert into employee values ('E0003', 'Adarsh', 'Clerk', 'E0004', 'D004', '10-jan-2013', 525,
15000);
Insert into employee values('E0004', 'Kevin', 'Admin', 'E0005', 'D002', '10-oct-2013', 1050,
20000);
Insert into employee values('E0005', 'Bony', 'Manager',' ', 'D001', '11-apr-2011', 1000, 50000);
Insert into employee values ('E0006', 'Manu', 'Supplier', 'E0001', 'D003', '19-jun-2013', 473,
5000);
DECLARE
id varchar2(6);
sal incr number(5);
PROCEDURE salincrement(id IN varchar2, sal incr IN number)
IS
BEGIN
update EMPLOYEE set sal=sal+sal incr where empid=id;
END:
```

BEGIN

END;

id:='&Empid';

sal_incr:='&Increment';
salincrement(id, sal incr);

```
SQL> DECLARE
  2 id varchar2(6);
  3 sal_incr number(5);
  5 PROCEDURE salincrement(id IN varchar2, sal_incr IN number)
  6 IS
 7
    BEGIN
 8 update EMPLOYEE set sal=sal+sal incr where empid=id;
 9 END:
 10 BEGIN
     id:='&Empid';
 11
 12 sal_incr:='&Increment';
 13 salincrement(id, sal_incr);
 14 END;
 15 /
Enter value for empid: E0003
old 11:
          id:='&Empid';
          id:='E0003';
new 11:
Enter value for increment: 5000
old 12: sal_incr:='&Increment';
new 12: sal_incr:='5000';
PL/SQL procedure successfully completed.
#8.2
DECLARE
id varchar2(6);
PROCEDURE increment(id IN varchar2)
IS
BEGIN
update EMPLOYEE set comm=0.05*comm+comm where empid=id;
END:
BEGIN
id:='&Empid';
increment(id);
END;
```

```
Commit complete.
SOL> DECLARE
  2 id varchar2(6);
  3 PROCEDURE increment(id IN varchar2)
    IS
  5
     BEGIN
     update EMPLOYEE set comm=0.05*comm+comm where empid=id;
     END:
     BEGIN
  9
       id:='&Empid';
 10 increment(id);
 11 END;
 12 /
Enter value for empid: E0004
           id:='&Empid';
      9:
            id:='E0004';
new
      9:
PL/SQL procedure successfully completed.
Commit complete.
#8.3
create table bank(username varchar2(20), accid number(4), balance number(6,2));
insert into bank values('Nihal'', 1234, 2000.5);
insert into bank values('Sarah', 1235, 1590.7);
insert into bank values('Neha', 1236, 2908.5);
insert into bank values ('Neema', 1238, 2560.4);
insert into bank values('Noel', 1239, 1245.2);
DECLARE
id number(4);
wamt number(6,2);
balamt number(6,2);
bal number(6,2);
PROCEDURE withdraw(wamt IN number, id IN number)
IS
BEGIN
select balance into balamt from bank where id=accid;
bal:=balamt-wamt;
if(bal<1000) then
dbms output.put line('LOW BALANCE!!');
else
update bank set balance=bal where id=accid;
dbms output.put line('Money withdrawn! Balance: '|| bal);
end if;
END;
BEGIN
id:='&id';
wamt:='&wamt';
withdraw(wamt, id);
```

```
END;
SQL> DECLARE
 2 id number(4);
 3 wamt number(6,2);
 4 balamt number(6,2);
 5 bal number(6,2);
 6 PROCEDURE withdraw(wamt IN number, id IN number)
 7
 8 BEGIN
 9 select balance into balamt from bank where id=accid;
10 bal:=balamt-wamt;
11 if(bal<1000) then
    dbms output.put line('LOW BALANCE!!');
12
13
14
    update bank set balance=bal where id=accid;
15 dbms output.put line('Money withdrawn! Balance: '|| bal);
16 end if;
17 END;
18 BEGIN
19 id:='&id';
20 wamt:='&wamt';
21 withdraw(wamt, id);
22 END;
23 /
Enter value for id: 1234
old 19: id:='&id';
new 19: id:='1234';
Enter value for wamt: 1000
old 20: wamt:='&wamt';
new 20: wamt:='1000';
Money withdrawn! Balance: 1000.5
PL/SQL procedure successfully completed.
Commit complete.
1 < 102
#8.4
```

```
SQL> DECLARE
  2
            num1 INTEGER;
  3
         num2 INTEGER;
  4
         t
               INTEGER;
  5
     BEGIN
  6
         num1 := &m;
  7
          num2 := &n;
  8
       WHILE MOD(num2, num1) != 0 LOOP
  9
              t := MOD(num2, num1);
 10
 11
              num2 := num1;
 12
 13
              num1 := t;
         END LOOP;
 14
 15
 16
         dbms_output.Put_line('GCD of '
 17
                                 ||num1
                                 ||' and '
 18
 19
                                 ||num2
                                 ||' is '
 20
21
                                 ||num1);
22 END;
23 /
Enter value for m: 4
              num1 := &m;
old 6:
     6:
              num1 := 4;
new
Enter value for n: 2
old 7:
               num2 := &n;
               num2 := 2;
new
    7:
GCD of 2 and 4 is 2
PL/SQL procedure successfully completed.
Commit complete.
enis I
#8.5
CREATE TABLE Student6 (RegNo INTEGER PRIMARY KEY, name VARCHAR2(20), marks NUMBER);
INSERT INTO Student6 VALUES (1, 'Alice', 85);
INSERT INTO Student6 VALUES (2, 'Rohan', 75);
INSERT INTO Student6 VALUES (4, 'Mat', 80);
INSERT INTO Student6 VALUES (5, 'Joe', 95);
```

```
SQL> CREATE OR REPLACE PROCEDURE disp_avg_mark
  2 AS
       v_average NUMBER;
  3
  4 BEGIN
       SELECT AVG(marks) INTO v_average FROM Student6;
DBMS_OUTPUT.PUT_LINE('Average mark: ' || v_average);
  5
Procedure created.
SQL> BEGIN
        disp_avg_mark;
  3 END;
 4 /
Average mark: 83.75
PL/SQL procedure successfully completed.
Commit complete.
SQL> CREATE OR REPLACE PROCEDURE disp_mark (reg_no IN INTEGER)
  2 AS
  3
       mark NUMBER;
       SELECT marks INTO mark FROM Studentó WHERE RegNo = reg_no;
       DBMS_OUTPUT.PUT_LINE('Mark: ' || mark);
  7 END;
  8 /
Procedure created.
SOL>
SQL> BEGIN
 2 disp_mark(1);
  3 END;
 4 /
Mark: 85
PL/SQL procedure successfully completed.
```