Assignment - 9

PL/SQL Code:

1. Write a PL/SQL block of code that first withdraws an amount of Rs. 500. Then again withdraws Rs. 500. Now if the current balance of a specific account number is less than Rs. 1000 then undo the last withdraw just made.

```
set serveroutput on
declare
  n number(20);
  t number(20);
  amt number:=500;
begin
   n:=&n;
  update Acc details set Total Cost=Total Cost-amt where Acc No=n;
   commit:
   savepoint s;
  update Acc details set Total Cost=Total Cost-amt where Acc No=n;
   select Total Cost into t from Acc details where Acc No=n;
   if(t<1000) then
    dbms_output.put_line('Balance after 2nd Transaction- ' || t);
    dbms output.put_line('Insufficient Balance.');
    rollback to savepoint s;
```

dbms_output.put_line('Balance after Rollback ' || t);

select Total_Cost into t from Acc_details where Acc_No=n; dbms_output.put_line('Balance after COMMIT' || t);

Output:

end;

else

end if:

commit:

```
SQL> @ "F:\BTech\DBMS LAB\Solved_A_9\a9_1.sql";
Enter value for n: 001
old 6: n:=&n;
new 6: n:=001;
Balance after COMMIT 11000

PL/SQL procedure successfully completed.
```

2. Write a PL/SQL block of code to update the location of specific department number that will be taken from user. Display an appropriate message using SQL%FOUND based on existence of the record in the Department table and display an appropriate message using SQL%NOTFOUND based on the non-existence of the record in Department Table.

PL/SQL Code:

```
set serveroutput on
declare
    dno number:=&dno;
    loc1 varchar2(10):='&loc';
begin
        update Dept set loc=loc1 where Deptno=dno;
    if sql%found then
        dbms_output.put_line(' The updated loc is ' || loc1);
    end if;
```

3. Write a PL/SQL block that will show an Employee name for a given Employee number. Here you try to enter a wrong Employee number and show an appropriate message i.e. NOT FOUND using exception handling.

```
PL/SQL Code:
```

```
set serveroutput on
declare
   ename varchar2(20);
   Eno number:=&Eno;
begin
   select ename into ename from Emp where Empno=Eno;
  dbms output.put line(' The Employee name is ' || ename);
   exception
   when NO DATA FOUND then
   dbms output.put line(' The Employee is not found for the given Emp No. ');
end;
/
Output:
                   SQL> @ "F:\BTech\DBMS LAB\Solved_A_9\a9_3.sql";
                   Enter value for eno: 7934
                   old 3: Eno number:=&Eno;
new 3: Eno number:=7934;
                   The Employee name is MILLER
                   PL/SQL procedure successfully completed.
```

4. Write a PL/SQL block of code using your own exception handling that will show an error message whenever you want to insert a null value in a not null column.

PL/SQL Code:

```
set serveroutput on declare
IN_ERR exception;
Pragma
exception_init(IN_ERR, -01400);
begin
insert into Emp values (null, 'BLAKE', 'MANAGER', 7839, to_date('1-5-1981','dd-mm-yyyy'),
2850, null, 30);
exception
when IN_ERR then
```

```
dbms_output.put_line(' Cannot insert Null values in not Null column. ');
end;
/

Output:

SQL> @ "F:\BTech\DBMS LAB\Solved_A_9\a9_4.sql";
Cannot insert Null values in not Null column.
PL/SQL procedure successfully completed.
```

- 5. a) Create a table Emp_sal_inc that have three column (Emp_id, Cur_sal, Inc_date).
 - b) Now write a PL/SQL block of code will allow 2% salary increment of all employee of RESEARCH department. After that all records are to be inserted into the above table i.e. Emp_sal_inc.

PL/SQL Code:

```
set serveroutput on
create table Emp sal inc(
  Emp id number(10),
  cur_sal number(20,4),
  inc date date
);
declare
cursor cur is
select Empno, Sal from Emp where Deptno=(Select Deptno from Dept where
Dname='RESEARCH');
Emp id number;
Emp sal Emp.Sal%type;
begin
   open cur;
   if cur%isopen then
    loop
       fetch cur into Emp id, Emp sal;
       exit when cur%notfound;
       update Emp set Sal=Sal*1.02 where Empno=Emp id;
       insert into Emp_sal_inc values(Emp_id, Emp_sal, SYSDATE);
    end loop;
     commit;
     dbms output.put line(cur%rowcount);
   else
     dbms output.put line(' Cursor not open....');
   end if;
close cur:
end;
```

Output:

```
SQL> @ "F:\BTech\DBMS LAB\Solved_A_9\a9_5.sql";
Table created.
5
PL/SQL procedure successfully completed.
```