```
SET SERVEROUTPUT ON;
SET VERIFY OFF;
DECLARE
X number:= &Fund_Amount_to_add;
v_fund_amnt number;
Begin
      select fund_amnt into v_fund_amnt from fund where fid=1;
      dbms_output.put_line('Old Fund: '||v_fund_amnt);
      v_fund_amnt:= v_fund_amnt+X;
      dbms_output.put_line('New Fund: '||v_fund_amnt);
      update FUND set fund_amnt=v_fund_amnt where fid=1;
      commit;
      EXCEPTION
      When no data found then
            DBMS_OUTPUT_LINE('No Data Found');
      When others then
            DBMS_OUTPUT_LINE('Something wrong happened');
end;
```

```
clear screen;
SET SERVEROUTPUT ON;
SET VERIFY OFF;
DECLARE
      v_lid LEAVE.lid %type;
      v_eid LEAVE.eid %type:=&EmployeeID;
      v_I_month LEAVE.I_month %type:='&Month';
      v_l_day LEAVE.l_day %type:=&No_of_Leaves;
BEGIN
      SELECT lid
      into v lid
      FROM (select * from LEAVE ORDER BY lid DESC) leave1
      WHERE rownum <= 1 ORDER BY rownum DESC;
      v_lid:=v_lid+1;
      AddLeave(v_lid,v_eid,v_l_month,v_l_day);
      EXCEPTION
      When no data found then
            DBMS_OUTPUT_LINE('No Data Found');
      When others then
            DBMS_OUTPUT_LINE('Something wrong happened');
END;
```

```
clear screen;
SET SERVEROUTPUT ON;
SET VERIFY OFF;

DECLARE

X number:= &Eid;
Y varchar2(15):= '&Month_of_Salary';
r number;

Begin

r := myPackage.Generate_Salary(X,Y);

DBMS_OUTPUT.PUT_LINE(r);
 myPackage.Transect_Salary(X,r,Y);
 commit;
end;
// red
```

```
clear screen;
SET SERVEROUTPUT ON;
SET VERIFY OFF;
DECLARE
      v eid EMPLOYEE.eid %TYPE;
      v ename EMPLOYEE.ename %TYPE :='&Name';
  v_gender EMPLOYEE.gender %TYPE :='&Gender';
      v_email EMPLOYEE.email %TYPE :='&Email';
      v joinDate EMPLOYEE.join date %TYPE:='&JoinDate';
      v_sid employee_salary.sid%TYPE:='&Salary';
BEGIN
      SELECT eid
      into v eid
      FROM (select * from EMPLOYEE ORDER BY eid DESC) Emp1
      WHERE rownum <= 1 ORDER BY rownum DESC;
      v eid:=v eid+1;
      insert into employee values (v_eid, v_ename, v_gender,v_email, v_joinDate);
      insert into employee_salary values(v_eid,v_sid);
      commit;
      EXCEPTION
      When no data found then
            DBMS_OUTPUT.PUT_LINE('No Data Found');
      When others then
            DBMS_OUTPUT.PUT_LINE('Something wrong happened');
END;
```

```
clear screen;
SET SERVEROUTPUT ON;
SET VERIFY OFF;

DECLARE
     v_eid EMPLOYEE.eid %TYPE:=&EmpolyeeID;
     v_sid employee_salary.sid%TYPE:=&NewSalaryId;

BEGIN
     ChangeEmployeeSalary(v_eid,v_sid);
END;
//
```

```
SET SERVEROUTPUT ON:
SET VERIFY OFF;
clear screen;
DECLARE
      X number:= &Your EmployeeID;
      --v eid EMPLOYEE.eid %TYPE;
      v ename EMPLOYEE.ename %TYPE;
  v gender EMPLOYEE.gender %TYPE;
      v email EMPLOYEE.email %TYPE;
      v_joinDate EMPLOYEE.join_date %TYPE;
      v_l_day leave.l_day%TYPE;
      v basic salary.basic%TYPE;
      v_allowance salary.allowance%TYPE;
      v_sid employee_salary.sid%TYPE;
      n1 number;
      v tid transection.tid %TYPE;
      v eid transection.eid %TYPE;
      v_ammount transection.ammount %TYPE;
      v t date transection.t date %TYPE;
      v s month transection.s month %TYPE;
      --s1 varchar2;
      cursor payments cur is
      select tid, eid, s_month,t_date,ammount from TRANSECTION@site_link where eid=X;
Begin
      select ename,gender,email,join_date
      into v_ename,v_gender,v_email,v_joinDate
      from EMPLOYEE@site link where eid=X;
      select sid into v sid from employee_salary@site_link where eid=X;
      select basic, allowance into v_basic, v_allowance from salary@site_link where
sid=v sid;
      dbms output.put line('
      dbms_output.put_line('Employee Details
      dbms_output_line('Employee ID : '||X);
      dbms output.put line('Name
                                      : '||v_ename);
      dbms output.put line('Gender
                                      : '||v gender);
      dbms_output.put_line('Email
                                      : '||v_email);
      dbms_output.put_line('Joining Date : '||v_joinDate);
                                                               <u>'</u>);
      dbms_output.put_line('__
```

```
dbms output.put line('Salary Details
                                                           _');
      dbms_output.put_line('Basic
                                     : '||v_basic);
      dbms_output.put_line('Allowance : '||v_allowance);
      n1:=v basic+v allowance;
      dbms_output.put_line('Total Salary : '||n1);
      dbms output.put line('
      dbms_output.put_line('Payments Details
      dbms_output.put_line('TransectionID EmployeeID MonthOfSalary Leaves
PaymentDate Amount');
      open payments cur;
      loop
             fetch payments cur into v tid, v eid, v s month, v t date, v ammount;
             exit when payments_cur%notfound;
             select I day into v I day from leave@site link where eid=X and
I_month=v_s_month;
             DBMS_OUTPUT_LINE(TO_CHAR(v_tid)||'
                                                                 '||TO_CHAR(v_eid)||'
                             '||TO_CHAR(v_I_day)||' '||TO_CHAR(v_t_date)||'
'||TO CHAR(v s month)||'
'||TO_CHAR(v_ammount));
             end loop;
      close payments cur;
EXCEPTION
 WHEN no data found THEN
   dbms_output.put_line('THIS EMPLOYEE DOESNT EXIST!');
 WHEN others THEN
   dbms output.put line('ERROR!');
end;
```

```
create or replace function Check_Valid(n1 in number, s1 in varchar2)
   return number
   is
      temp_eid transection.eid %TYPE:= n1;
      temp_s_month transection.s_month %TYPE:=s1;
      v eid transection.eid %TYPE;
      v_s_month transection.s_month %TYPE;
      return_val number:=0;
      cursor my cur is
      select eid, s_month from TRANSECTION;
BEGIN
      OPEN my_cur;
             loop
                    fetch my cur into v eid, v s month;
                    exit when (my cur%notfound or return val=1);
                    if((v_eid=temp_eid) and (v_s_month=temp_s_month)) then
                    return_val:=1;
                    else
                    return_val:=2;
                    end if;
             end loop;
      CLOSE my_cur;
      return return_val;
      EXCEPTION
      When no_data_found then
             DBMS_OUTPUT.PUT_LINE('No Data Found');
      When others then
             DBMS_OUTPUT_LINE('Something wrong happened');
end Check_Valid;
```

```
create or replace package myPackage as

function Generate_Salary(n1 in number, s1 in varchar2)
return number;

Procedure Transect_Salary(n1 in number, n2 in number,s1 in varchar2);
end myPackage;
```

```
create or replace Procedure AddLeave(v_lid in number, v_eid in number,v_l_month in varchar2,v_l_day in number) is begin insert into leave values(v_lid,v_eid, v_l_month, v_l_day); commit; end AddLeave;
```

```
create or replace Procedure ChangeEmployeeSalary(v_eid in number,v_sid in number) is

Begin

update EMPLOYEE_SALARY set sid=v_sid where eid=v_eid;
commit;

EXCEPTION

When no_data_found then

DBMS_OUTPUT.PUT_LINE('No Data Found');
When others then

DBMS_OUTPUT.PUT_LINE('Something wrong happened');

end ChangeEmployeeSalary;
//
```

```
is
    v_fund_amnt fund.fund_amnt %TYPE;

Begin

select fund_amnt into v_fund_amnt from fund where fid=1;
v_fund_amnt:= v_fund_amnt-n1;

update FUND set fund_amnt=v_fund_amnt where fid=1;
commit;

EXCEPTION
    When no_data_found then
        DBMS_OUTPUT.PUT_LINE('No Data Found');
    When others then
        DBMS_OUTPUT.PUT_LINE('Something wrong happened');

end Update_Fund;
//
```



```
SET SERVEROUTPUT ON;

CREATE OR REPLACE trigger EmpSalary_audit

BEFORE UPDATE ON EMPLOYEE_SALARY

FOR EACH ROW

DECLARE

v_date varchar2(30);

begin

select sysdate into v_date from dual;
insert into EMPLOYEE_SALARY_Audit values (:NEW.sid,:OLD.sid,v_date);
dbms_output.put_line('Salary Change for The Employee');
commit;

end;
//
```

```
SET SERVEROUTPUT ON;

create or replace trigger Trig_EmpSalaryInsert
after insert on EMPLOYEE_SALARY
begin
    dbms_output.put_line('Salary Assigned To the Employee');
end;
```


SET SERVEROUTPUT ON; create or replace trigger Trig_Tansect after insert on transection begin dbms_output.put_line('One Transection completed'); end;

```
SET SERVEROUTPUT ON;

CREATE OR REPLACE trigger Fund_audit

BEFORE UPDATE ON FUND

FOR EACH ROW

DECLARE

v_date varchar2(30);

begin

select sysdate into v_date from dual;

insert into FUND_Audit values (:NEW.fund_amnt,:OLD.fund_amnt,v_date);

dbms_output.put_line('Fund Updated');

commit;

end;

/
```

```
create or replace package body myPackage as
      function Generate_Salary(n1 in number, s1 in varchar2)
  return number
  is
       v I day leave.I day%TYPE;
        v basic salary.basic%TYPE;
        v_allowance salary.allowance%TYPE;
        v_sid employee_salary.sid%TYPE;
        v return number;
begin
      select I day into v I day from leave where eid=n1 and I month=s1;
       select sid into v_sid from employee_salary where eid=n1;
      select basic, allowance into v_basic, v_allowance from salary where sid=v_sid;
       if(v_l_day<3) then
      v_return:=v_basic+v_allowance;
      elsif(v_l_day>=3 and v_l_day<5) then
      v_basic:=v_basic-(v_basic*0.05);
      v_return:=v_basic+v_allowance;
      elsif(v | day>=5) then
      v_basic:=v_basic-(v_basic*0.07);
      v_return:=v_basic+v_allowance;
      end if;
      return v_return;
EXCEPTION
      When no_data_found then
             DBMS_OUTPUT.PUT_LINE('No Data Found');
      When others then
             DBMS_OUTPUT.PUT_LINE('Something wrong happened');
end Generate_Salary;
       Procedure Transect_Salary(n1 in number, n2 in number, s1 in varchar2)
  is
```

```
t_id transection.tid %TYPE;
      v_count NUMBER:=0;
      new id NUMBER;
      v tid transection.tid %TYPE;
      v_eid transection.eid %TYPE:= n1;
      v ammount transection.ammount %TYPE :=n2;
      v_t_date transection.t_date %TYPE;
      v_s_month transection.s_month %TYPE:=s1;
      checking number
BEGIN
  select sysdate into v t date from dual;
      select count(*) into t_id from transection where tid=1;
      if(t_id=0) then
             insert into transection values(1,v eid,v ammount,v t date,v s month);
             Update Fund(v ammount);
      else
         checking := Check_Valid(v_eid,v_s_month);
         if(checking=2) then
                    SELECT tid
           into t_id
           FROM (select * from transection ORDER BY tid DESC) transection1
           WHERE rownum <= 1 ORDER BY rownum DESC;
                v count:=v count+1;
                new_id := t_id + v_count;
                insert into transection values(new_id,v_eid,v_ammount,v_t_date,v_s_month);
                Update_Fund(v_ammount);
         elsif (checking=1) then
                dbms_output.put_line('Already done');
             end if:
      end if;
      commit;
end Transect_Salary;
end myPackage;
```

```
clear screen;
DROP TABLE EMPLOYEE CASCADE CONSTRAINTS;
DROP TABLE SALARY CASCADE CONSTRAINTS;
DROP TABLE EMPLOYEE_SALARY CASCADE CONSTRAINTS;
DROP TABLE TRANSECTION CASCADE CONSTRAINTS;
DROP TABLE LEAVE CASCADE CONSTRAINTS:
DROP TABLE FUND CASCADE CONSTRAINTS;
CREATE TABLE EMPLOYEE (
      eid int.
      ename varchar2(20),
  gender varchar2(5),
      email varchar2(20),
     join_date varchar2(20),
    PRIMARY KEY(eid));
CREATE TABLE SALARY(
      sid int.
      basic int.
      allowance int,
      PRIMARY KEY(sid));
CREATE TABLE EMPLOYEE_SALARY(
      eid int,
      sid int,
      FOREIGN KEY(eid) REFERENCES EMPLOYEE(eid),
      FOREIGN KEY(sid) REFERENCES SALARY(sid));
CREATE TABLE LEAVE(
  lid int.
      eid int,
      I_month varchar2(15),
     I day int,
      PRIMARY KEY(lid));
CREATE TABLE TRANSECTION (
```

```
tid int.
       eid int,
       ammount int,
       t date date,
       s month varchar2(15),
       PRIMARY KEY(tid),
       FOREIGN KEY(eid) REFERENCES EMPLOYEE(eid));
CREATE TABLE FUND (
    fid int,
         fund amnt int,
         PRIMARY KEY(fid));
CREATE TABLE FUND_Audit (
         amnt new int,
         amnt old int,
         Update date varchar2(30));
CREATE TABLE EMPLOYEE_SALARY_Audit(
       new sid int,
       old sid int,
       Changing_date varchar2(30));
insert into employee values (1, 'Sajid Abdullah', 'M', 'sajid@gamil.com', '1/1/2019');
insert into employee values (2, 'Samia Zahan', 'F', 'samia@gamil.com', '1/1/2019');
insert into employee values (3, 'Muna Saha','F', 'muna@gamil.com', '1/1/2019');
insert into employee values (4, 'Robiul Hasan','M', 'nowshad@gamil.com', '1/1/2019');
insert into employee values (5, 'Shahriar Shibli', 'M', 'shibli@gamil.com', '1/1/2019');
insert into employee values (6, 'Shourav Saha', 'M', 'shourav@gamil.com', '1/1/2019');
insert into employee values (7, 'Apurbo Roy', 'M', 'apu@gamil.com', '1/1/2019');
insert into employee values (8, 'Tanvir Rahman','M', 'mrt@gamil.com', '1/1/2019');
insert into employee values (9, 'Sonia Khatun','F', 'sonia@gamil.com', '1/1/2019');
insert into employee values (10, 'Humayan Nila','F', 'nila@gamil.com', '1/1/2019');
insert into salary values(1, 18000,5000);
insert into salary values(2, 20000,5000);
insert into salary values(3, 22000,6000);
insert into salary values(4, 35000,6500);
insert into salary values(5, 50000,7000);
```

```
insert into employee salary values(1,1);
insert into employee_salary values(2, 3);
insert into employee salary values(3,5);
insert into employee salary values(4,2);
insert into employee salary values(5,1);
insert into employee salary values(6,3);
insert into employee_salary values(7,5);
insert into employee_salary values(8,4);
insert into employee salary values(9,2);
insert into employee salary values(10,4);
insert into leave values(1,1, 'Jan/19', 3);
insert into leave values(2,3, 'Jan/19', 4);
insert into leave values(3,2, 'Jan/19', 5);
insert into leave values(4,6, 'Jan/19', 3);
insert into leave values(5,4, 'Jan/19', 1);
insert into leave values(6,5, 'Jan/19', 5);
insert into leave values(7,9, 'Jan/19', 3);
insert into leave values(8,7, 'Jan/19', 3);
insert into leave values(9,8, 'Jan/19', 4);
insert into leave values(10,10, 'Jan/19', 3);
insert into leave values(11,1, 'Fab/19', 5);
insert into fund values(1,1000000);
```

commit;