

PART –II

1) Get the details for a given programmer

Declare

name

programmer.pname%type:='& name';

p1 programmer.prof1%type;

p2 programmer.prof2%type;

p3 programmer.salary%type;

begin

select prof1,prof2,salary INTO

p1,p2,p3 from programmer

where pname=name;

dbms_output.put_line('name of person'||name);

dbms_output.put_line('language known1'||p1);

dbms_output.put_line('language



```
known2:'||p2);
```

```
    dbms_output.put_line(' salary  
paid:'||p3);
```

```
end;
```

**2) Insert the new tuple into the table
programmer**

```
declare
```

```
    name
```

```
programmer.pname%type:=' & name';
```

```
    db programmer.dob%type:=' & db';
```

```
    dj programmer.doj%type:=' & dj';
```

```
    ge programmer.gender%type:=' & ge';
```

```
    p1 programmer.prof1%type:=' & p1';
```

```
    p2 programmer.prof2%type:=' & p2';
```

```
    s programmer.salary%type:=& s;
```

```
begin
```

```
    insert into programmer
```

```
values(name,db,dj,ge,p1,p2,s);
```

```
        dbms_output.put_line('inserted');  
commit;  
end;
```

3) Delete an unwanted tuple from the table programmer

```
declare  
    name  
programmer.pname%type:=' & name';  
begin  
    delete from programmer where  
pname=name;  
    dbms_output.put_line('deleted');  
end;
```

4) Create a table maths(a,b,a+b,a-b,a*b,a/b). Read two numbers a& b and insert a tuple into maths in the form (a,b,a+b,a- b,a*b,a/b).

declare

 a number:=& a;

 b number:=& b;

begin

 if(b=0) then

 insert into maths values(a,b,a+b,a-b,a*b,null);

 else

 insert into maths values(a,b,a+b,a-b,a*b,a/b);

 end if;

 commit;

end;

5) Display programmer name and his software details

declare

 cursor s is select * from software;

```

        x s%rowtype;
begin
    open s;
    loop
        fetch s into x;
        exit when s%notfound;

        dbms_output.put_line('pname:'||x.pname||
        'title:' ||x.title||'devd:' ||x.dev_d);
    end loop;
    dbms_output.put_line(s%rowcount);
close s;
end;

create table males(pname
, dob, doj, gender, prof1, prof2, sal)

```

6) Get the details of male programmers and insert into another table males

declare

```
cursor s is select * from programmer  
where gender='m';
```

```
x s%rowtype;
```

```
begin
```

```
    open s;
```

```
    loop
```

```
        fetch s into x;
```

```
        exit when s%notfound;
```

```
        insert into males
```

```
values(x.pname,x.dob,x.doj,x.gender,  
        x.prof1,x.prof2,x.salary);
```

```
    end loop;
```

```
commit;
```

```
close s;
```

```
end;
```

7) Radius:

```
declare
```

```
cursor s is select radi from radius;
xs%rowtype;
begin
    open s;
    loop
        fetch s into x;
        exit when s%notfound;
        insert into circle
values(x.radi,3.14*x.radi*x.radi,2*3.14*x.
radi);
    end loop;
    close s;
end;
```

8) Get nth highest paid programmer details

declare

```
cursor s is select * from programmer
order by salary desc;

t s%rowtype;
n number:=' & n';
c number:=0;
x number;
temp number:=0;
begin
  open s;
  loop
    fetch s into t;
    if(temp!=t.salary) then
      c:=c+1;
    end if;
    temp:=t.salary;
    if (c=n) then
      x:=t.salary;
```



```
        end if;
        if (x=t.salary) then

dbms_output.put_line(t.pname);
        end if;
        if (x>t.salary) then
            exit;
        end if;
    end loop;
    close s;
end;
```

9) Procedure & function to calculate sum of two numbers

Procedure:

```
create or replace procedure addition(a
in number,b in number) as
c number;
```

```
begin
    c:=a+b;
    dbms_output.put_line('sum is'||c);
end;
```

Execution:

```
sql> get procd9.sql;
```

Procedure created

```
sql> exec addition(4,7);
```

sum is 11

Creating Function:

```
create or replace function addition1(a in
number,b in number) return number
```

as

```
c number;
```

```
begin
```

```
    c:=a+b;
```

```
    return (c);
```

end;

Calling Function:

declare

 x number:=& x;

 y number:=& y;

 z number;

begin

 z:=addition1(x,y);

 dbms_output.put_line('sum is'||z);

end;

10) Procedure & function to get details for given programmer

Procedure:

create or replace procedure
details(name in
programmer.pname%type)

```
as
p1 programmer.prof1%type;
p2 programmer.prof2%type;
pay programmer.salary%type;
begin
    select prof1,prof2,salary into
p1,p2,pay
from programmer  where pname=name;

dbms_output.put_line('name:'||name);
    dbms_output.put_line('lang1:'||p1);
    dbms_output.put_line('lang2:'||p2);
    dbms_output.put_line('salary:'||pay);
end;
/

sql> exec details('vijaya');
```

Creating Function:

create or replace function detail(name in
programmer.pname%type) return

varchar2 as

p1 programmer.prof1%type;

p2 programmer.prof2%type;

pay programmer.salary%type;

x varchar2(30);

begin

 select prof1,prof2,salary into
p1,p2,pay

from programmer

 where pname=name;

 x:=name||' '||p1||' '||p2||' '||pay;

 return (x);

end;

/

O /P: Function created

Calling function:

declare

 name

programmer.pname%type:=' & name';

 z varchar2(30);

begin

 z:=detail(name);

 dbms_output.put_line('details
are'||z);

end;

**11) Function to calculate salary of
highest paid male programmer**

Creating function:

create or replace function

payment(gender1 in

programmer.gender%type) return

varchar2

as

```

i number;
x varchar2(20):=' ';
cursor s is select pname,salary from
programmer where gender=gender1 and
salary=(select max(salary) from
programmer where gender=gender1);
a s%rowtype;
begin
i:=0;
open s;
loop
    fetch s into a;
    exit when s%notfound;
    i:=i+1;
    x:=x||'('||i||')'||' '||a.pname||'
'||a.salary;
end loop;
close s;

```

```

        return(x);
end;

Calling function:

Declare
gender1
programmer.gender%type:='& gender1';
        result varchar2(20);
begin
        result:=payment(gender1);
        dbms_output.put_line('highest paid
programmer salary is'||result);
end;

```

12) write a package with one function of product of two numbers. Procedure generates mathematical table

Package specification:

create or replace package pack as


```
function product(a in number,b in
number) return number;
procedure mathtable(a in number);
end pack;
/
```

o/p: Package created

Package body:

create or replace package body pack is

```
    function product(a in number,b in
number) return number as
```

```
        res number;
```

```
    begin
```

```
        res:=a*b;
```

```
        return(res);
```

```
    end product;
```

```
    procedure mathtable(a in number) as
```

```
        i number;
```

```
begin
    for i in 1..10
        loop
            dbms_output.put_line(a||' *
'||i||' = '||a*i);
        end loop;
    end mathtable;
end pack;
/
```

o/p: package body created

Main program:

```
declare
    n1 number:=&n1;
    n2 number:=&n2;
    p1 number;
    t number:=&t;
begin
```

```
p1:=pack.product(n1,n2);  
dbms_output.put_line('product of  
two numbers :'||p1);  
pack.mathtable(t);  
end;
```

13) Write a package with one function and one procedure, function to find the costliest package details. Procedure to find the details of programmer & packages developed

Package specification:

create or replace package abc as

```
function costly(cost in  
software.scost%type) return varchar2;
```

```
procedure detailsp(name in  
software.pname%type);
```

```
end;
```

```
/
```

o/p: package created

Package body:

create or replace package body abc is

function costly(cost in
software.scost%type) return varchar2

as

 x varchar2(30):=' ';

 i number:=0;

 cursor s is select title from software
 where scost=cost;

 a s%rowtype;

begin

 open s;

 loop

 fetch s into a;

 exit when s%notfound;

 i:=i+1;

```

        x:=x||'  '||i||' - > '||a.title;
    end loop;
    close s;
    return(x);
end costly;

procedure detailsp(name in
software.pname%type) as
    cursor s is select title,dev_d from
software where pname=name;
    a s%rowtype;
begin
    open s;
    loop
        fetch s into a;
        exit when s%notfound;

        dbms_output.put_line('Name      :'||na
me);

```

```
        dbms_output.put_line('Title
'||a.title);

        dbms_output.put_line('Platform
'||a.dev_d);

    end loop;

    close s;

end detailsp;

end abc;

/
```

o/p: package body created

Main program:

```
declare

    cost software.scost%type;

    tit varchar2(20);

    name
software.pname%type:=' & name';

begin
```

```
select max(scost) into cost from
software;

tit:=abc.costly(cost);

dbms_output.put_line('title of
costliest package is '||tit);

abc.detailsp(name);

end;
```

