

1. Write a PL/ SQL to find the date birth of a given programmer.

PL/SQL:-

declare

pn programmer.pname%type:='Ramesh';

db programmer.dob%type;

begin

select dob into db from programmer where pname=pn;

dbms_output.put_line('DOB of '||pn||' is '||db);

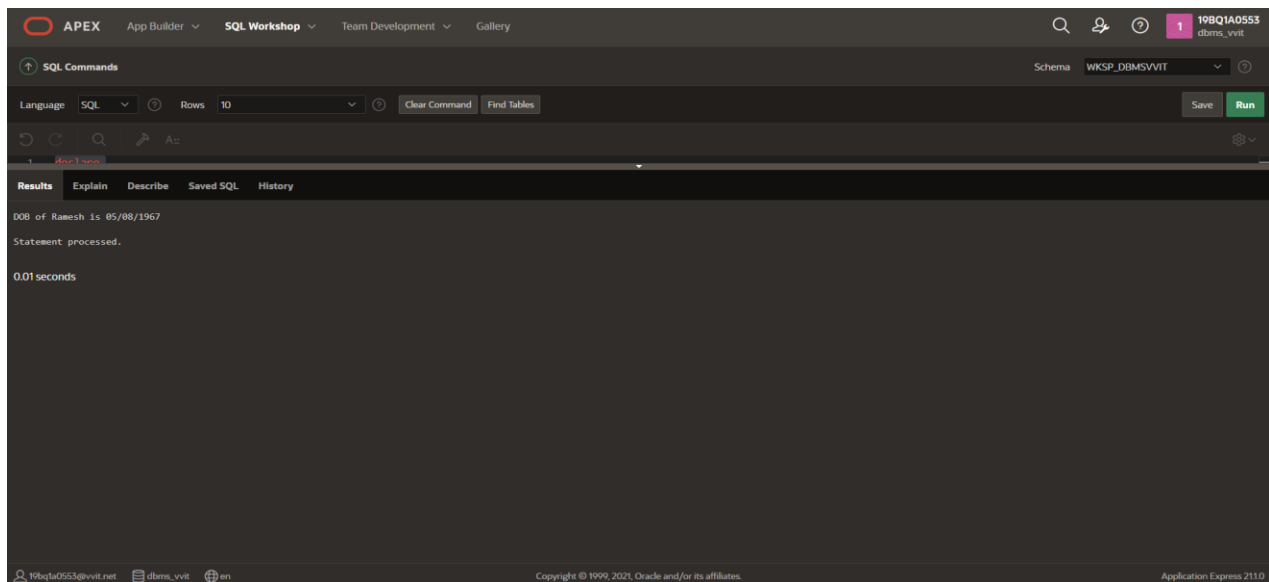
exception

when no_data_found then

dbms_output.put_line('No data Found');

end;

Output: -



2. Write a PL/ SQL to display the names and date of birth of programmers

PL/SQL:-

declare

 cursor s is select * from programmer;

 t s%rowtype;

begin

 open s;

 loop

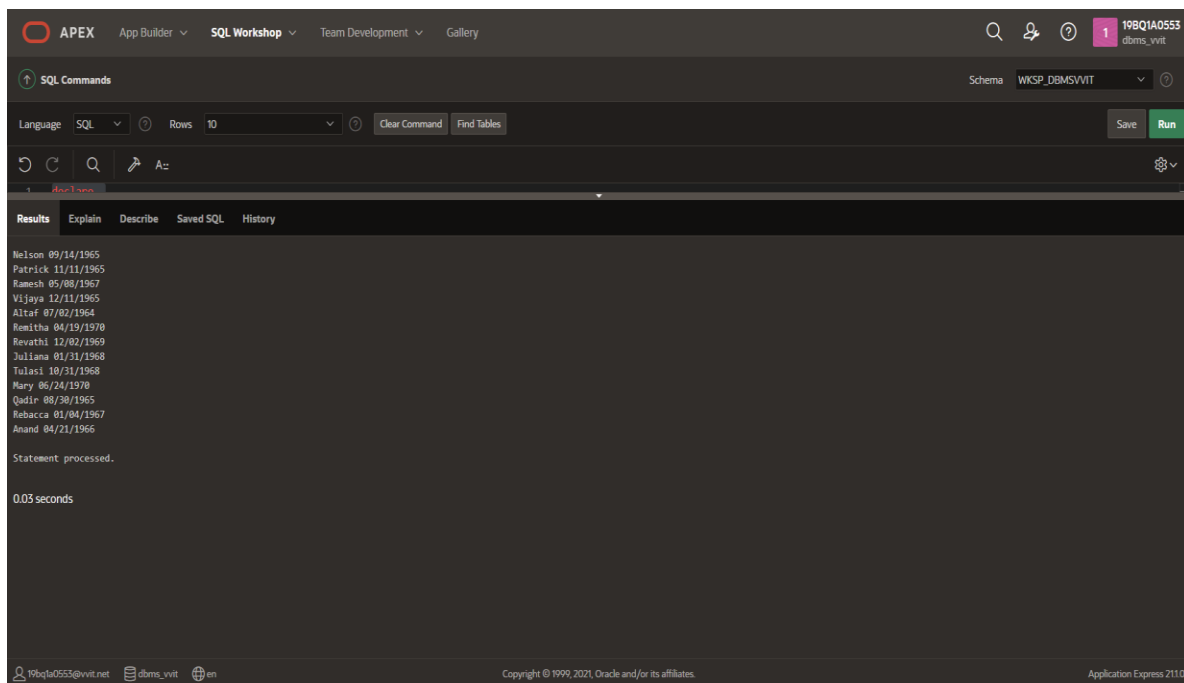
 fetch s into t;

 exit when s%notfound;

 dbms_output.put_line(t.pname||' '||t.dob);

```
end loop;  
close s;  
end;
```

Output:-



3. Write a PL/ SQL to find the titles of projects done by a given programmer.

PL/SQL:-

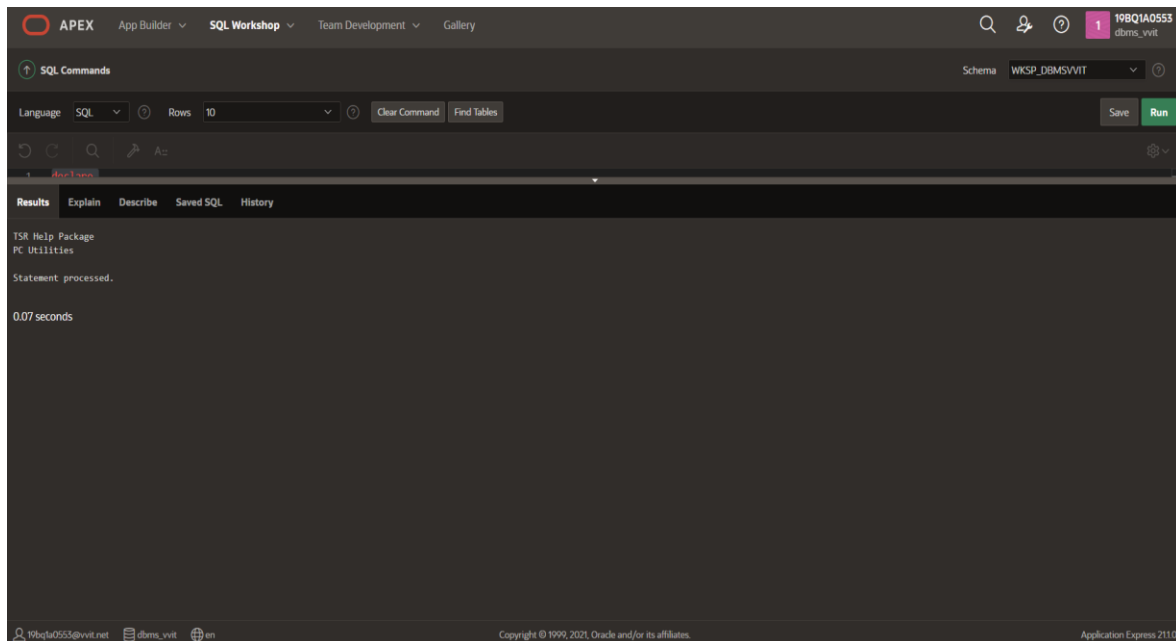
```
declare
```

```
pn software.pname%type:='Remitha';
```

```
cursor s is select * from software where pname=pn;
```

```
t s%rowtype;  
begin  
  open s;  
  loop  
    fetch s into t;  
    exit when s%notfound;  
    dbms_output.put_line(t.title);  
  end loop;  
  close s;  
end;
```

Output:-



4. Write a PL/ SQL to find the name of programmer for a given project.

PL/SQL:-

declare

 t software.title%type:='Bombs Away';

 pn software.pname%type;

begin

 select pname into pn from software where title=t;

 dbms_output.put_line('Programmer Name '||pn);

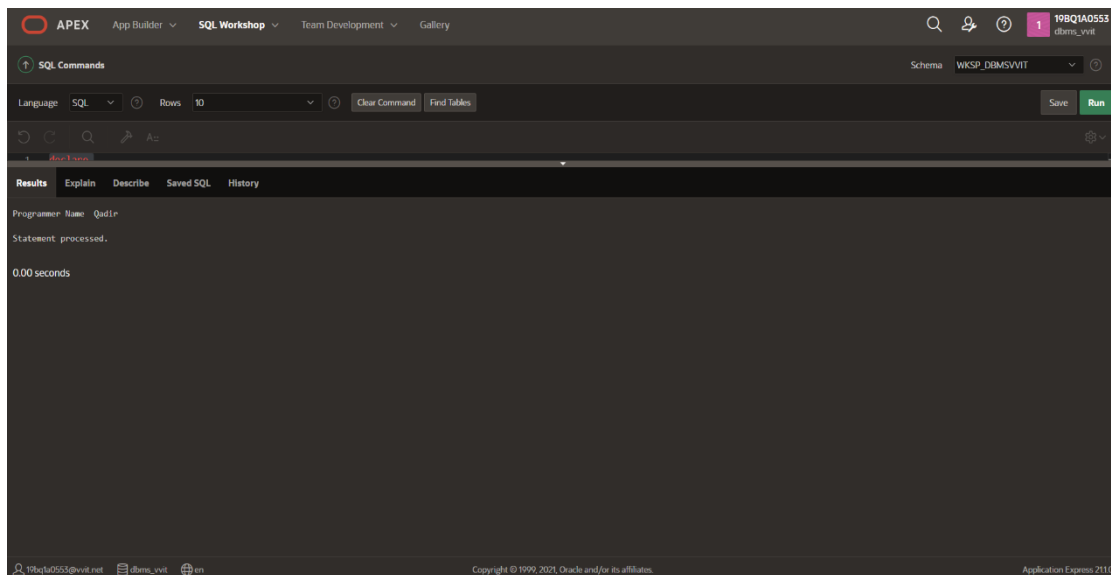
exception

 when no_data_found then

 dbms_output.put_line('No Data');

end;

Output:-



5. Write a PL/ SQL to calculate area and perimeter of radii present in the table radius and insert the radius, area and perimeter into another table circle.

PL/SQL:-

declare

 cursor s is select * from radius;

 t s%rowtype;

begin

 open s;

 loop

 fetch s into t;

 exit when s%notfound;

```

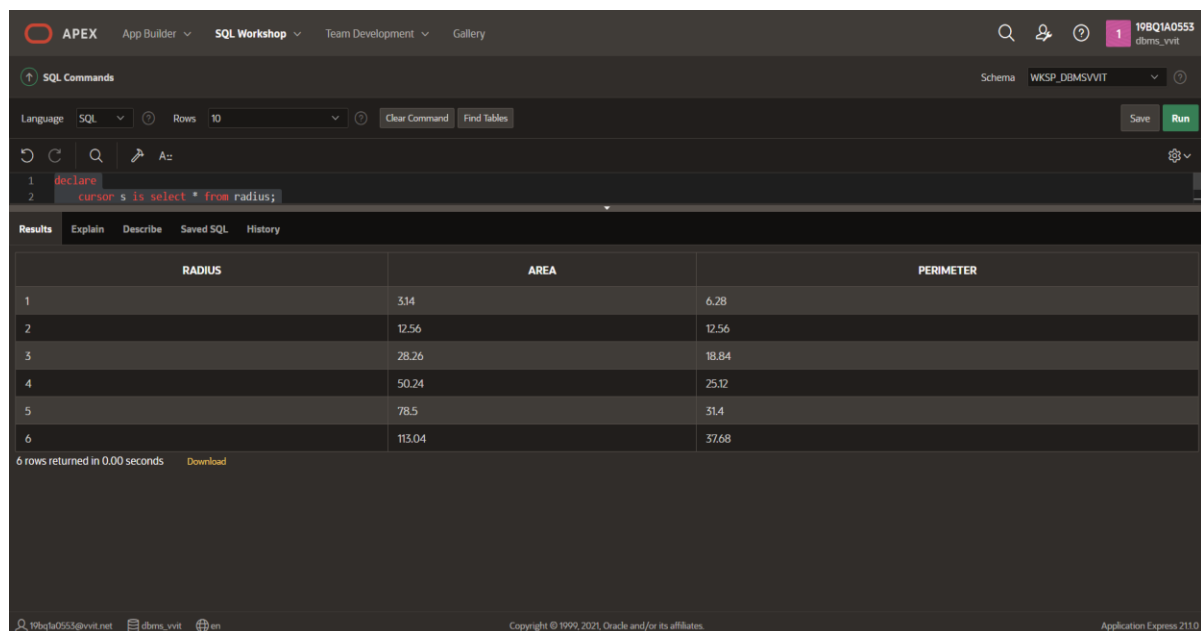
        insert into circle
values(t.radius,3.14*t.radius*t.radius,2*3.14*t.radius);

    end loop;

end;
```

```
select * from circle;
```

Output:-



The screenshot shows the Oracle APEX SQL Workshop interface. The SQL Commands window contains the following PL/SQL code:

```

1 declare
2   cursor s is select * from radius;
```

The Results window displays the output of the query, showing 6 rows of data. The columns are RADIUS, AREA, and PERIMETER.

	RADIUS	AREA	PERIMETER
1		3.14	6.28
2		12.56	12.56
3		28.26	18.84
4		50.24	25.12
5		78.5	31.4
6		113.04	37.68

6 rows returned in 0.00 seconds. Download

6. Write a procedure to calculate the product two numbers.

PL/SQL:-

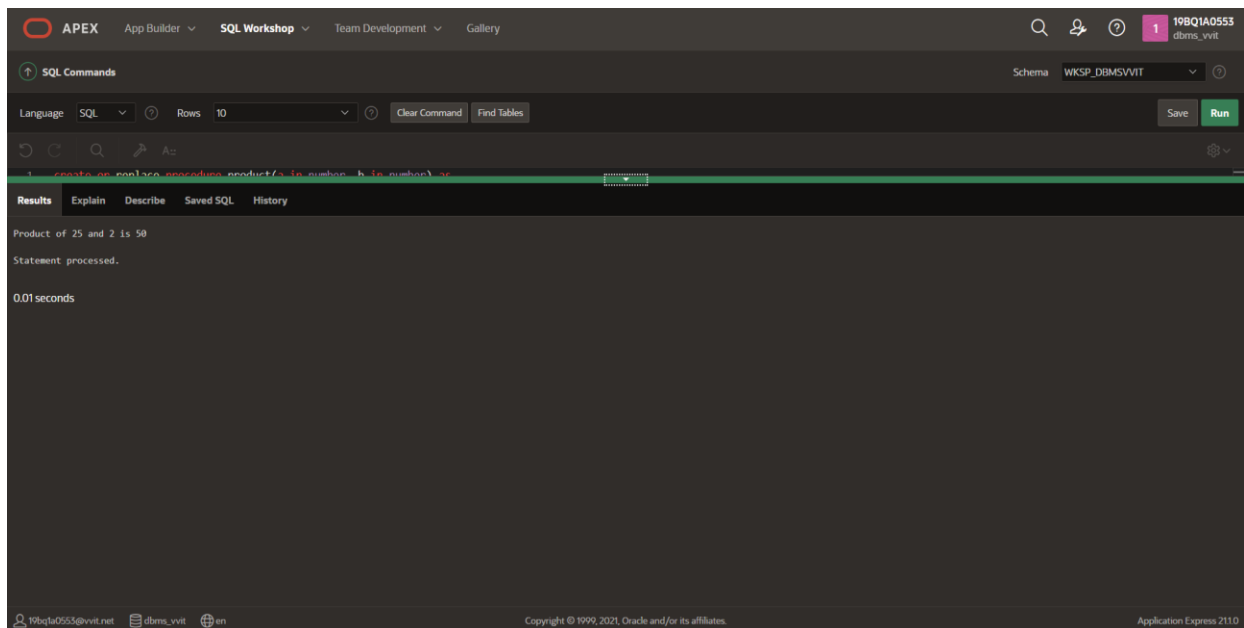
Creating procedure-

```
create or replace procedure product(a in number, b in
number) as
c number;
begin
    c:=a*b;
    dbms_output.put_line('Product of '||a||' and '||b||' is '||c);
end;
```

Executing procedure-

```
declare
    x number:=25;
    y number:=2;
begin
    product(x,y);
end;
```

Output:-



7. Write a procedure to get the date of birth for a given programmer

PL/SQL:-

Creating procedure-

create or replace procedure get_dob(p in
programmer.pname%type) as

db programmer.dob%type;

begin

select dob into db from programmer where pname=p;

dbms_output.put_line('Pname '||p||' DOB '||db);

exception

when no_data_found then

```
    dbms_output.put_line('NO DATA');
```

```
end;
```

Executing procedure-

declare

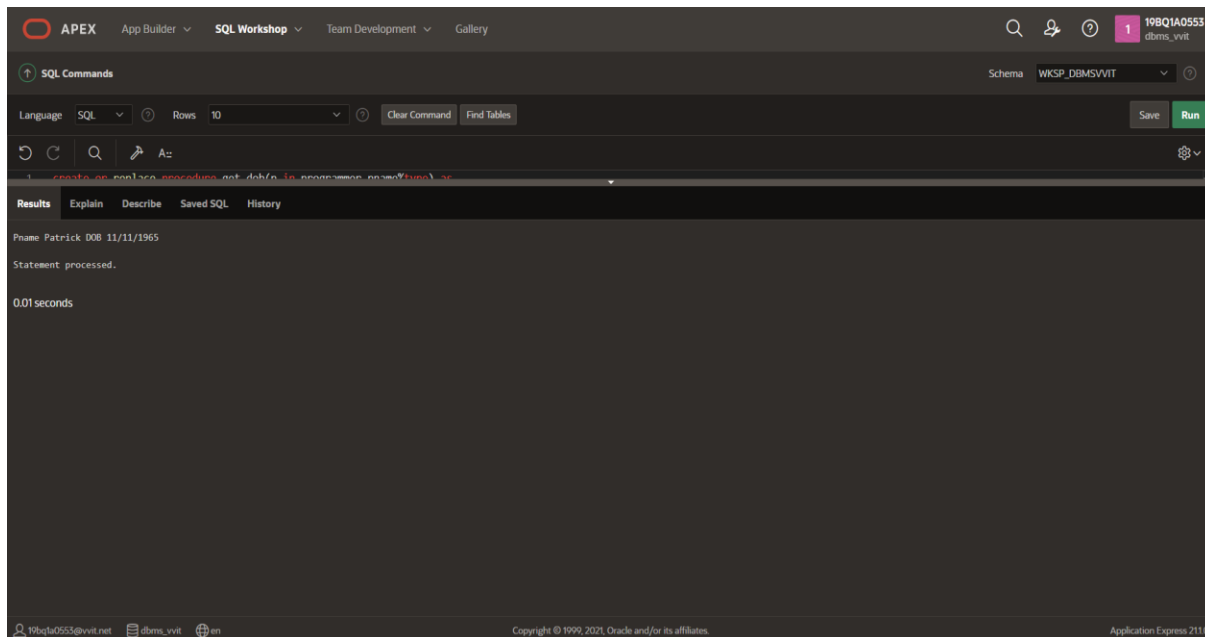
```
    x programmer.pname%type:='Patrick';
```

begin

```
    get_dob(x);
```

```
end;
```

Output:-



8. Write a function to return the sum of two numbers.

PL/SQL:-

Creating function-

create or replace function product_func(a in number, b in number) return number as

c number;

begin

c:=a*b;

return c;

end;

Calling function-

declare

x number:=10;

y number:=20;

res number;

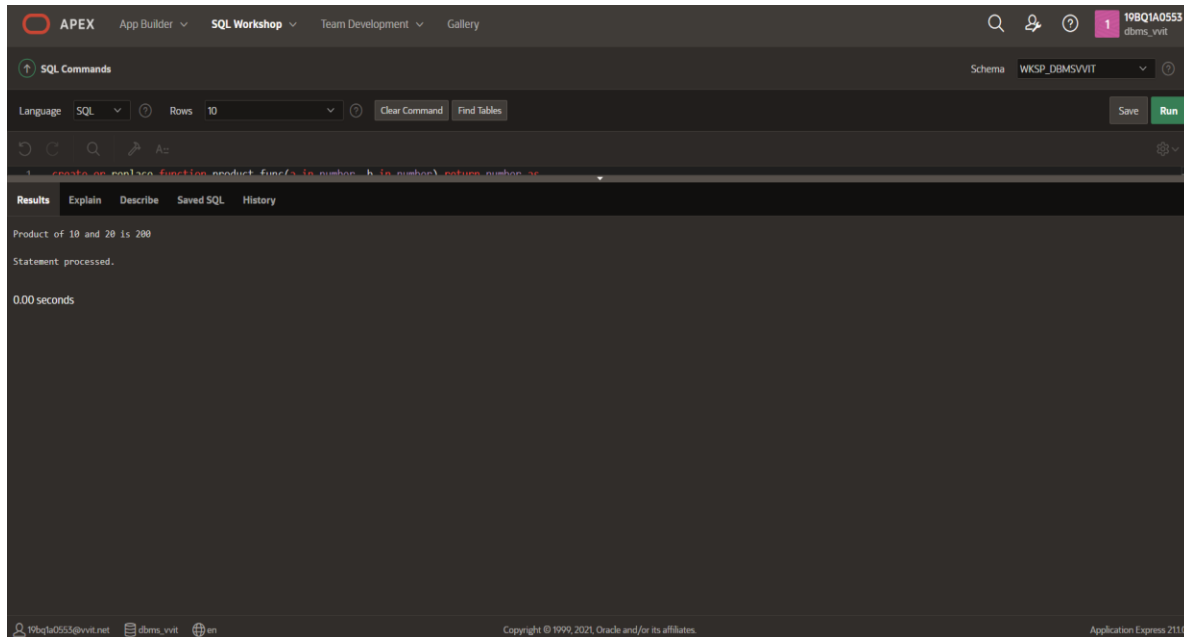
begin

res:=product_func(x,y);

dbms_output.put_line('Product of '||x||' and '||y||' is '||res);

end;

Output:-



9. Write a function to return the date of birth for a given programmer.

PL/SQL:-

Creating function-

```
create or replace function get_dob_func(p in  
programmer.pname%type) return date as  
d programmer.dob%type;  
begin
```

```
    select dob into d from programmer where pname=p;
```

```
    return d;  
end;
```

Calling fucntion-

```
declare
```

```
    x programmer.pname%type:='Nelson';
```

```
    res programmer.dob%type;
```

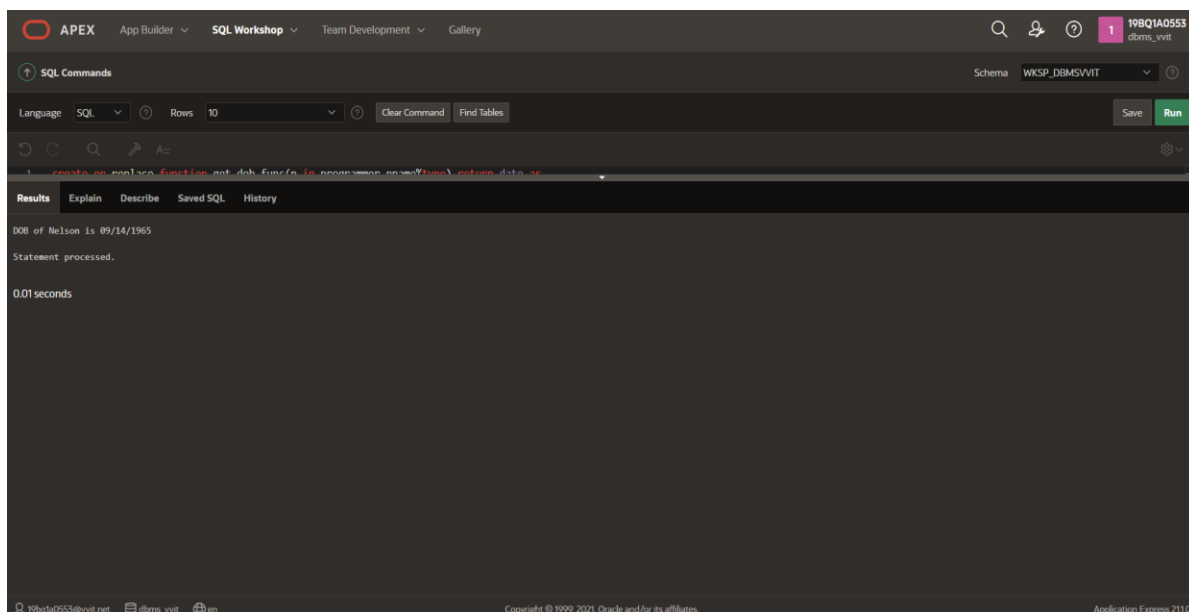
```
begin
```

```
    res:=get_dob_func(x);
```

```
    dbms_output.put_line('DOB of '||x||' is '||res);
```

```
end;
```

Output:-



10. Write a procedure to display the names of programmer studied in a given institute.

PL/SQL:-

Creating Procedure-

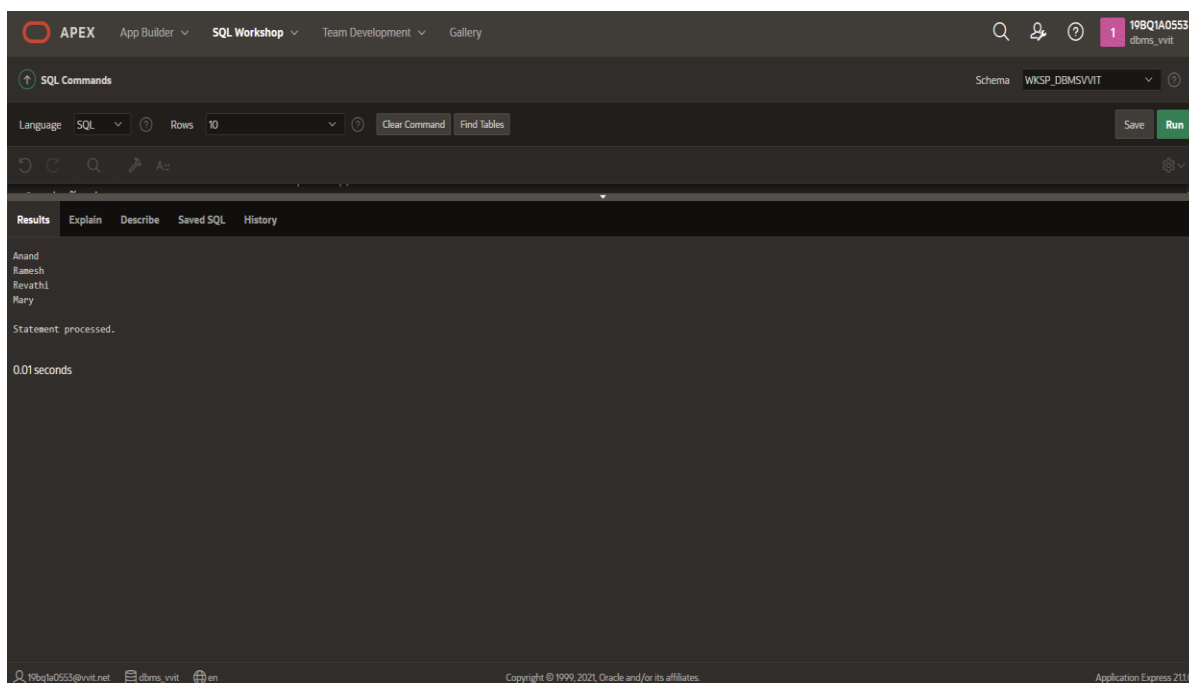
```
create or replace procedure getPName(sp
studies.splace%type) as
cursor s is select * from studies where splace=sp;
t s%rowtype;
begin
    open s;
    loop
        fetch s into t;
        exit when s%notfound;
        dbms_output.put_line(t.pname);
    end loop;
    close s;
end;
```

Calling function-

declare

```
x studies.splace%type:='Sabhari';  
begin  
    getPName(x);  
end;
```

Output:-



11. Write a function to calculate the total development cost for a given programmer using cursors.

PL/SQL:-

Creating function-

```

create or replace function total_dcost_func(p
programmer.pname%type) return number as
cursor s is select * from software where pname=p;
t s%rowtype;
total number;
begin
    total:=0;
    open s;
    loop
        fetch s into t;
        exit when s%notfound;
        total:=total+t.dcost;
    end loop;
    close s;
    return total;
end;

```

Calling function-

```

declare
    pn programmer.pname%type:='Revathi';
    res number;

```



```
begin
```

```
    res:=total_dcost_func(pn);
```

```
    dbms_output.put_line('Total development cost is  '||res);
```

```
end;
```

Output-

