Assignment-10

PL/sql-3

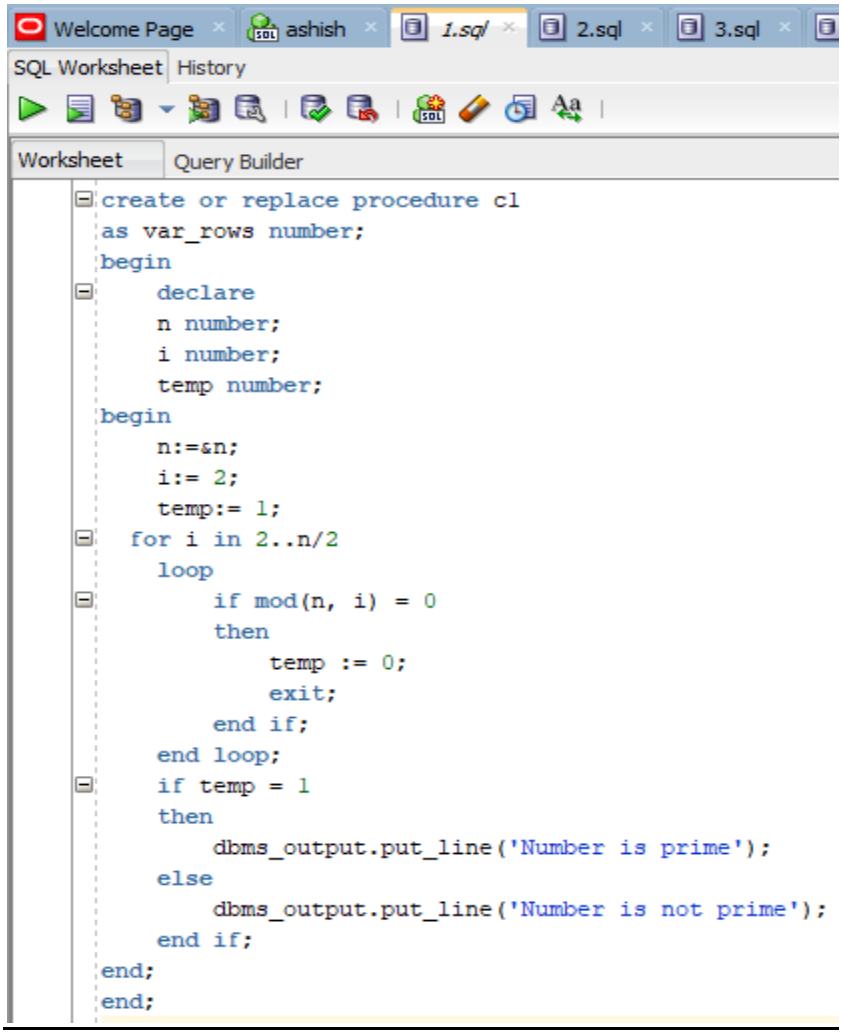
Name-Ashish Goyal

Id-2016ucp1100

Batch-A (1, 2)

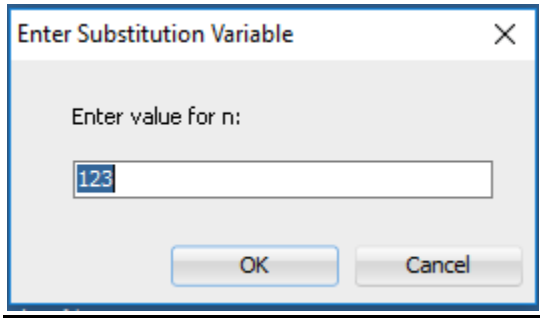
1- Write procedure to check whether a number is prime or not.

Procedure-

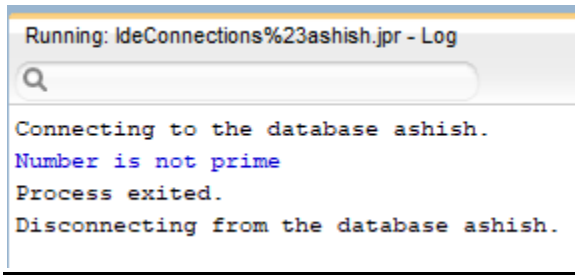



```
create or replace procedure cl
as var_rows number;
begin
    declare
    n number;
    i number;
    temp number;
begin
    n:=&n;
    i:= 2;
    temp:= 1;
  for i in 2..n/2
    loop
        if mod(n, i) = 0
        then
            temp := 0;
            exit;
        end if;
    end loop;
    if temp = 1
    then
        dbms_output.put_line('Number is prime');
    else
        dbms_output.put_line('Number is not prime');
    end if;
end;
end;
```

Input-

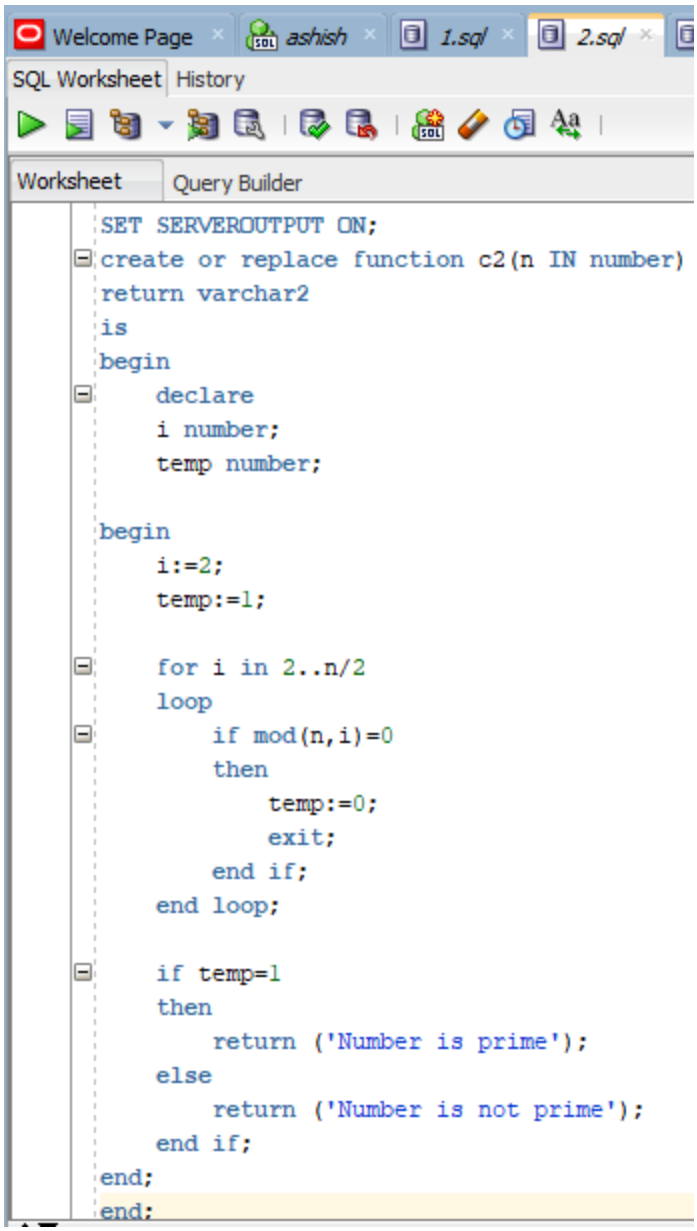


Result-

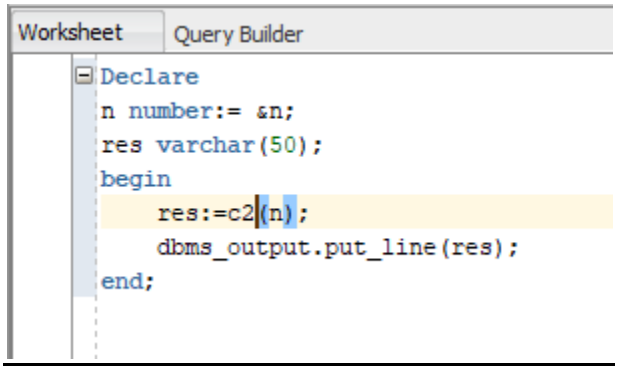


2- Write a function to check whether a number is prime or not.

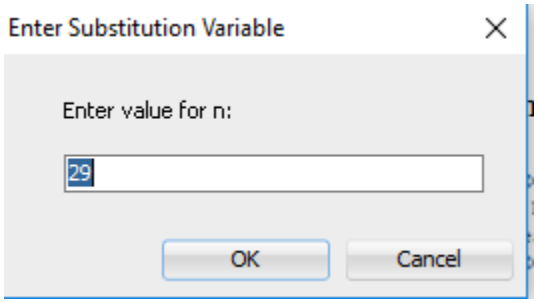
Function-



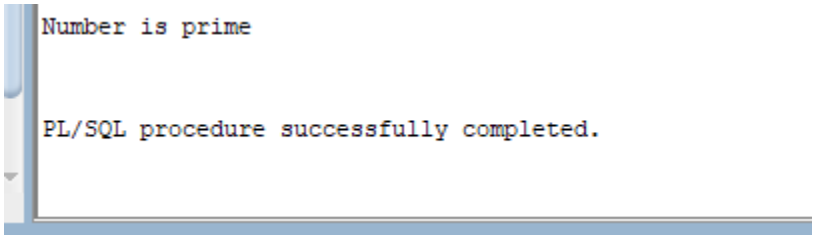
Function Call-



Input-

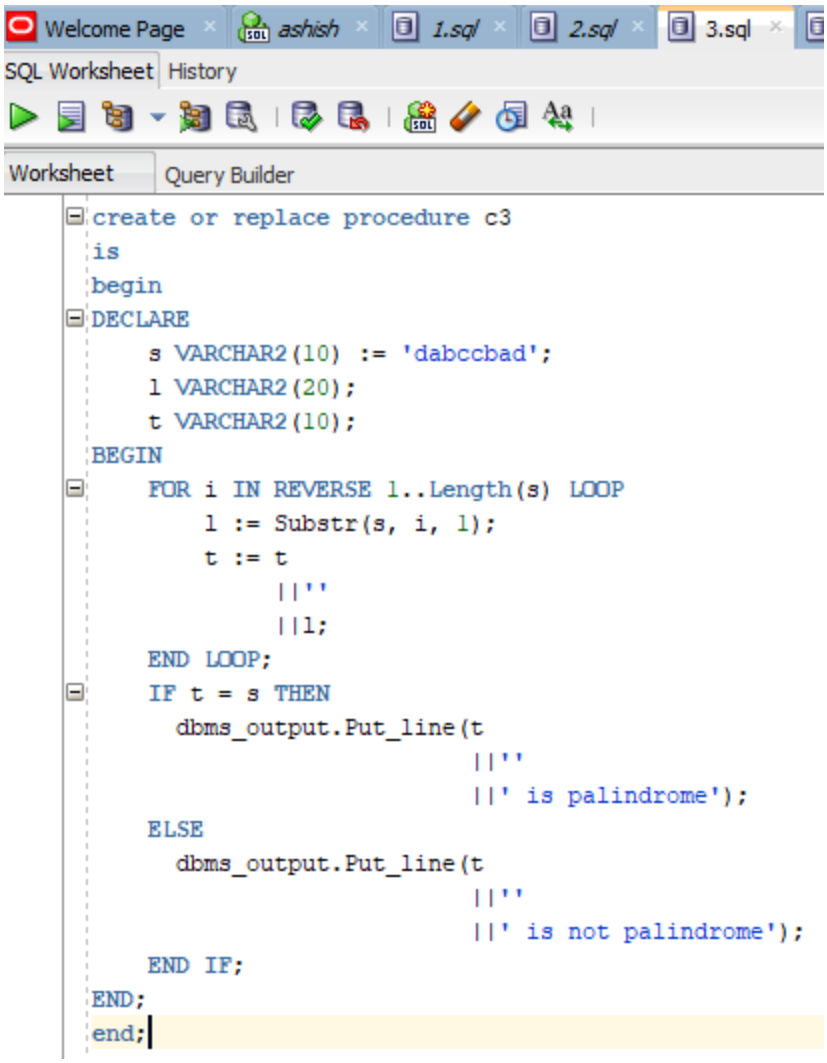


Result-

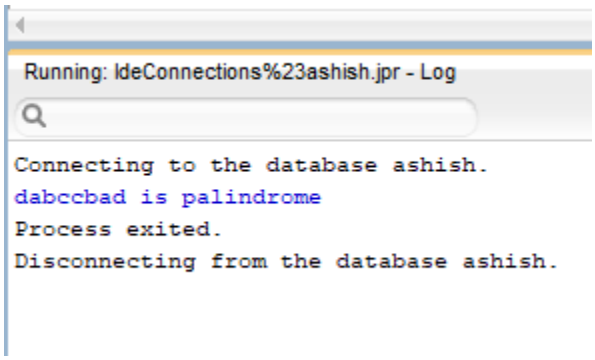


3- Write procedure to check whether a string is palindrome or not.

Procedure

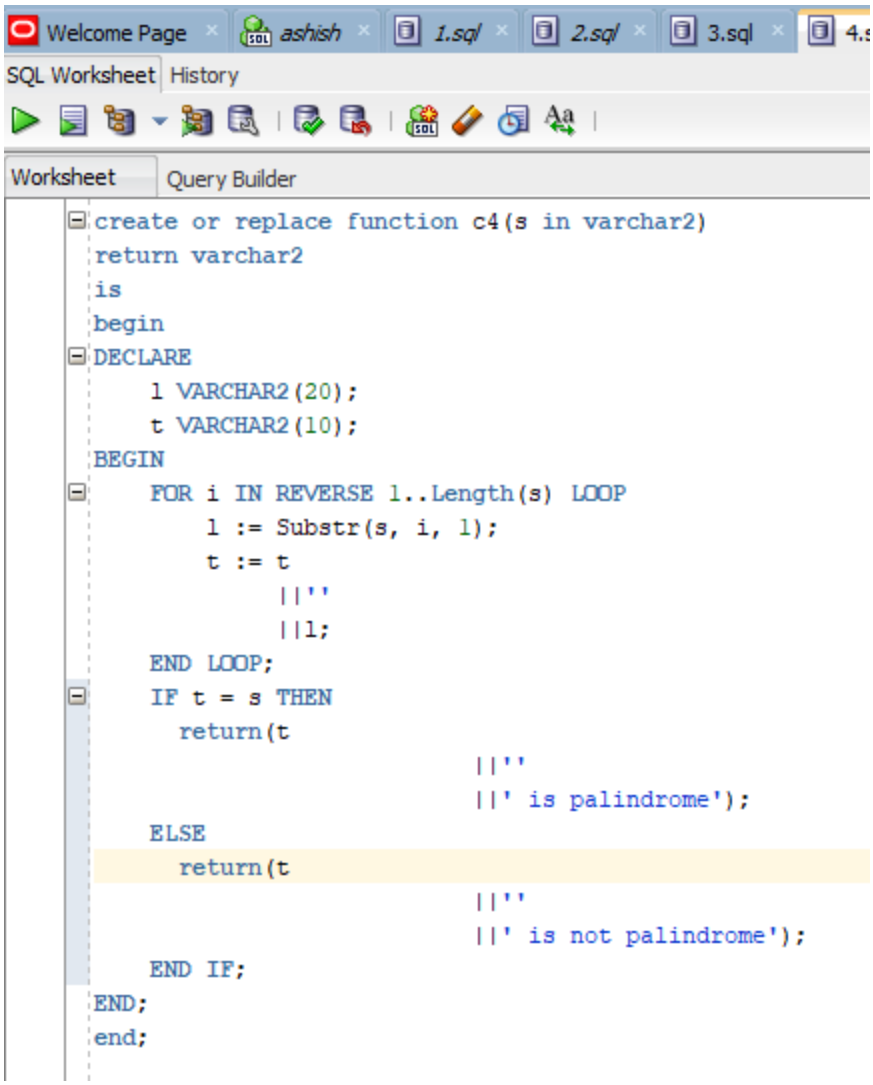


Result-



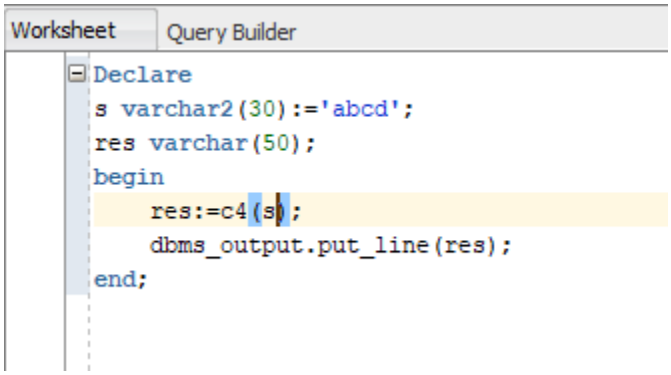
4- Write function to check whether string is palindrome or not.

Function-




```
create or replace function c4(s in varchar2)
return varchar2
is
begin
DECLARE
    l VARCHAR2(20);
    t VARCHAR2(10);
BEGIN
    FOR i IN REVERSE 1..Length(s) LOOP
        l := Substr(s, i, 1);
        t := t
             ||''
             ||l;
    END LOOP;
    IF t = s THEN
      return(t
                            ||''
                            ||' is palindrome');
    ELSE
      return(t
                            ||''
                            ||' is not palindrome');
    END IF;
END;
end;
```

Function Call-



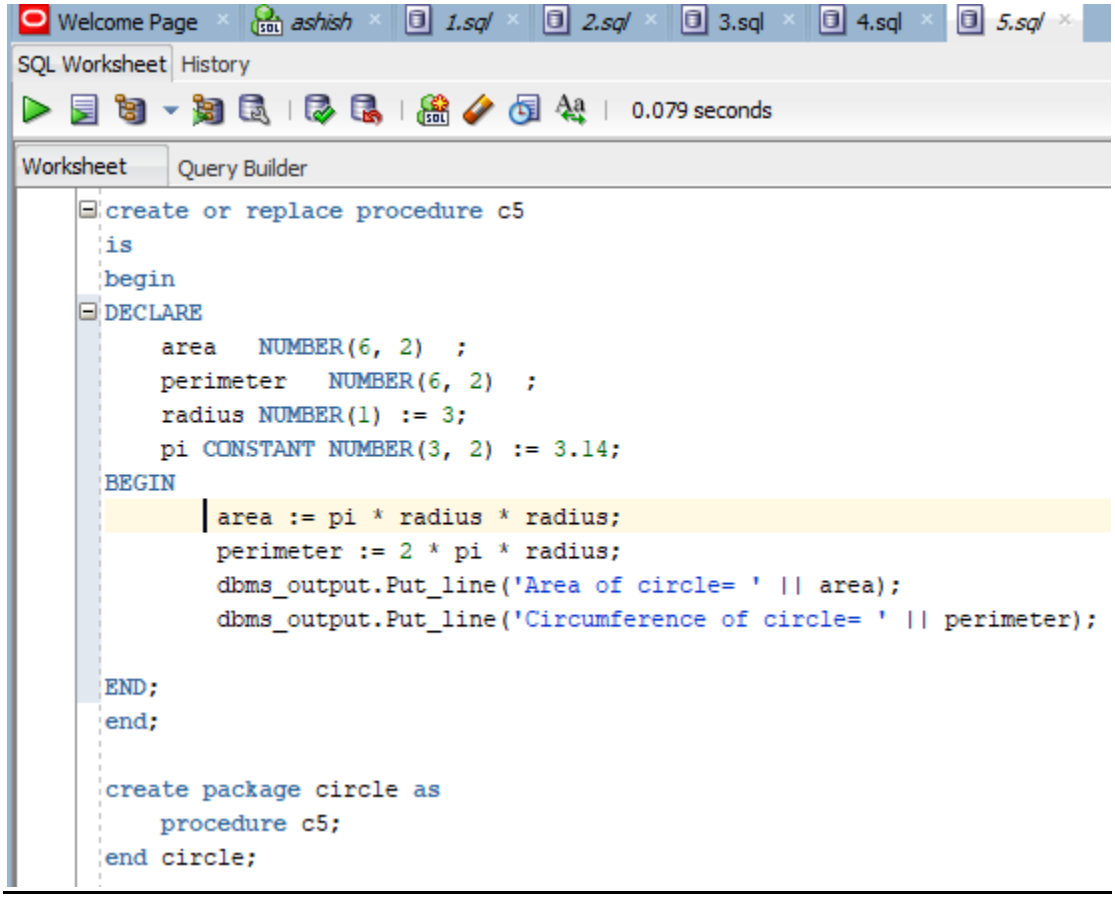

```
Declare
s varchar2(30):='abcd';
res varchar(50);
begin
    res:=c4(s);
    dbms_output.put_line(res);
end;
```

Result-

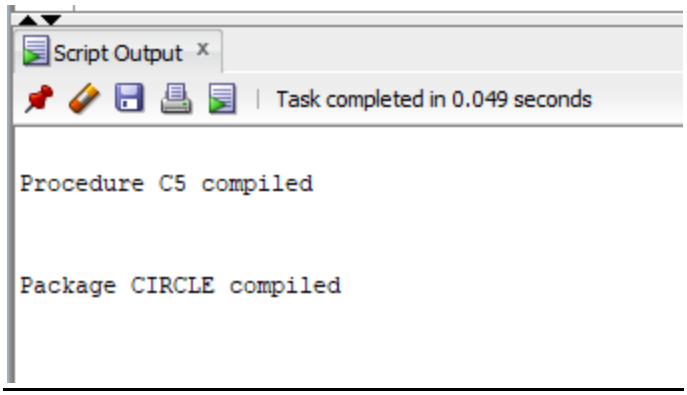
```
dcba is not palindrome


PL/SQL procedure successfully completed.
```

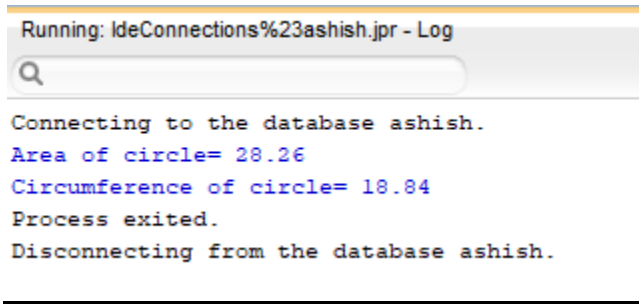
5- Create package to find area and circumference of circle with given radius.

Procedure and Package-



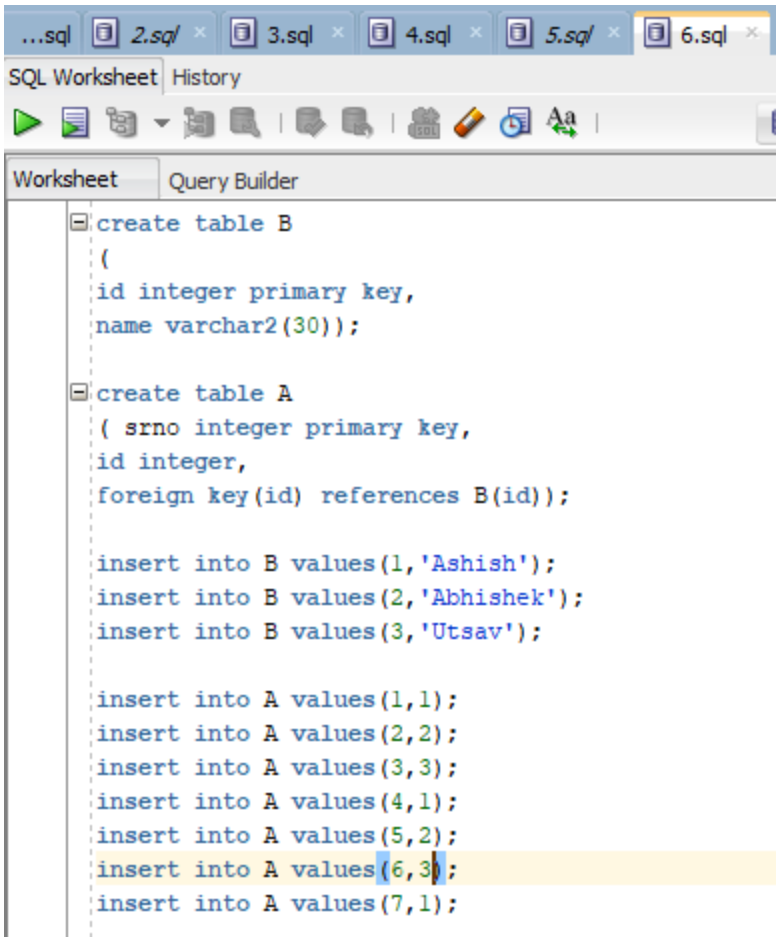
Result-



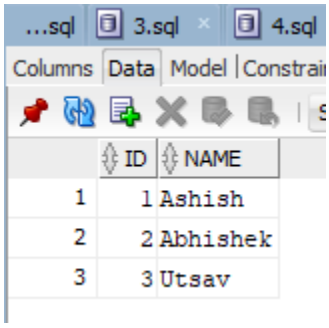


6- Create a trigger to delete tuple from table A even if foreign key violation is there by first deleting tuples from table B.

<u>Creating Tables-</u>


...sql
2.sql
3.sql
4.sql
5.sql
6.sql
SQL Worksheet
History
Worksheet
Query Builder
create table B
(
id integer primary key,
name varchar2(30));
create table A
(srno integer primary key,
id integer,
foreign key(id) references B(id));
insert into B values(1,'Ashish');
insert into B values(2,'Abhishek');
insert into B values(3,'Utsav');
insert into A values(1,1);
insert into A values(2,2);
insert into A values(3,3);
insert into A values(4,1);
insert into A values(5,2);
insert into A values(6,3);
insert into A values(7,1);

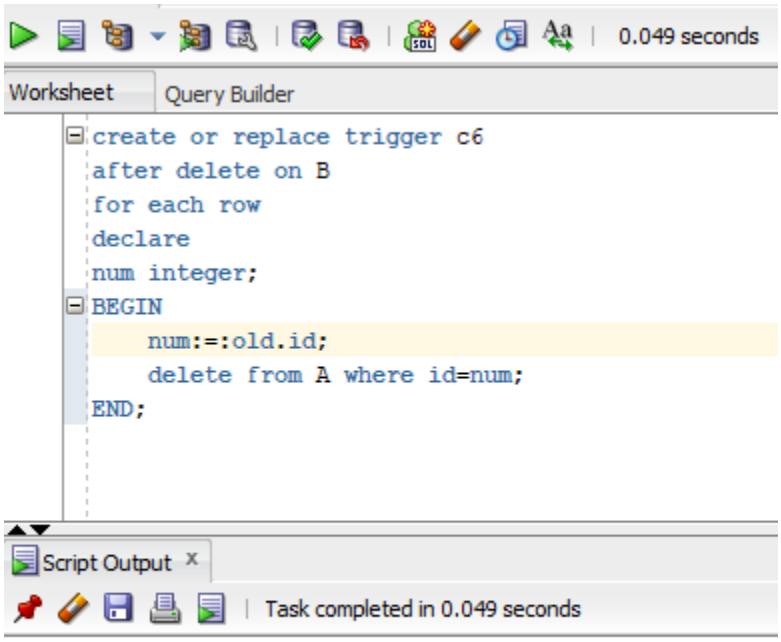
Show Tables-


...sql
3.sql
4.sql
Columns
Data
Model
Constrai
ID
NAME
1 1 Ashish
2 2 Abhishek
3 3 Utsav

Columns | Data | Model | Cor

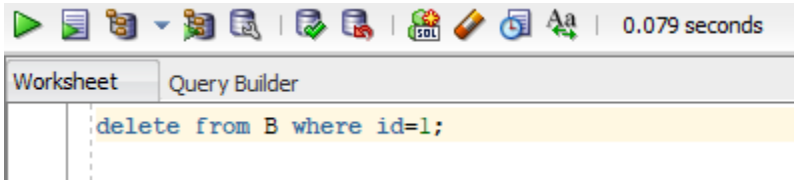
	SRNO	ID
1	1	1
2	2	2
3	3	3
4	4	1
5	5	2
6	6	3
7	7	1

Trigger-

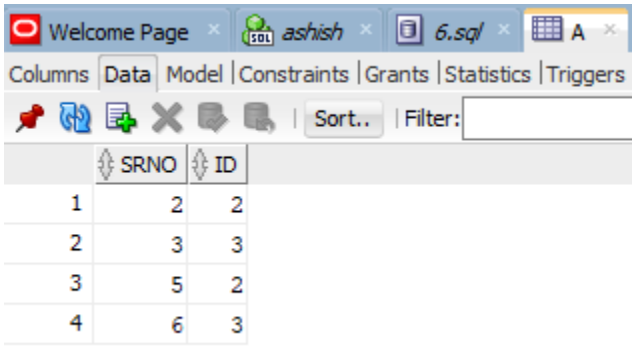



```
Trigger C6 compiled
```

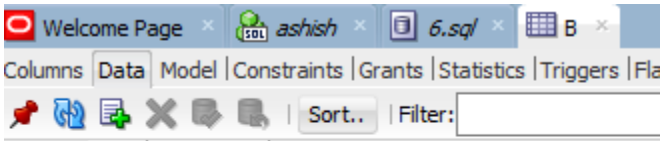
Delete Query-



Final Result-



	SRNO	ID
1	2	2
2	3	3
3	5	2
4	6	3



	ID	NAME
1	2	Abhishek
2	3	Utsav