



PL/SQL HANDS-ON

INTEAS22OSP002



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1. Write a function to return number of characters in a string.

Solution:

Set serveroutput on

DECLARE

 -- Declare required variables

 str VARCHAR2(40) := 'RUCHIKA';

 noofchars NUMBER(4) := 0;

 noofwords NUMBER(4) := 1;

 s CHAR;

BEGIN

 FOR i IN 1..Length(str) LOOP

 s := Substr(str, i, 1);

 -- Count no. of characters

 noofchars := noofchars + 1;

 -- Count no. of words

 IF s = ' ' THEN

 noofwords := noofwords + 1;

 END IF;

 END LOOP;

 dbms_output.Put_line('No. of characters:')

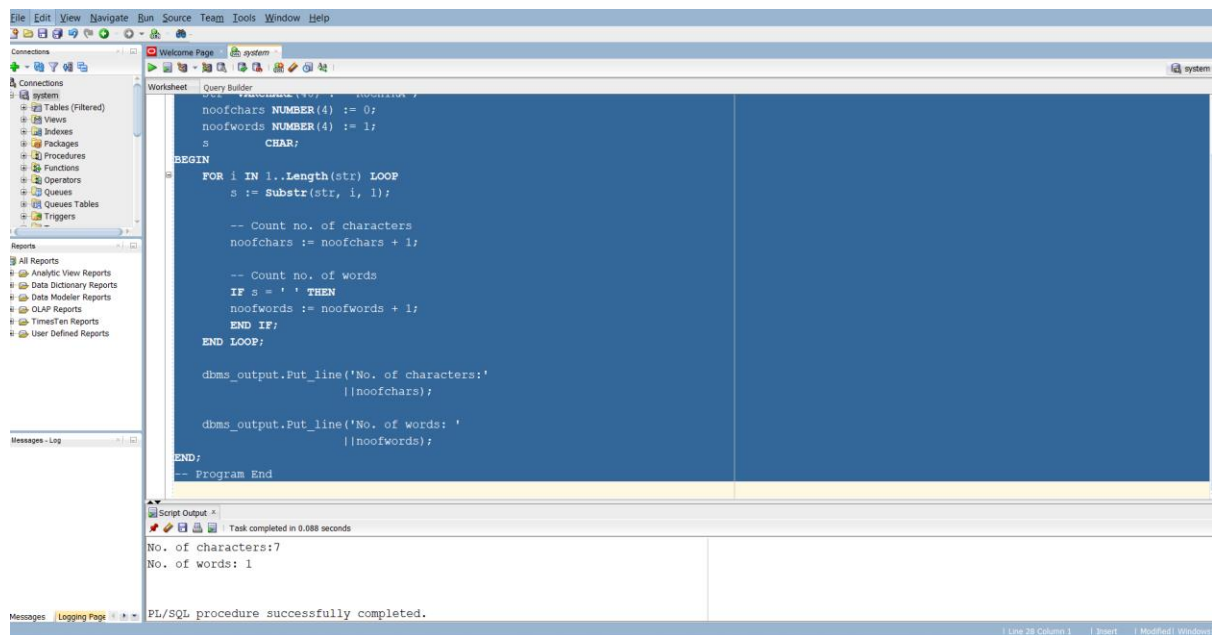
 || noofchars);

 dbms_output.Put_line('No. of words: '

 || noofwords);

END;

-- Program End



2. Write a function to return number of words in a sentence.

Solution:

Set serveroutput on

DECLARE

```
str      VARCHAR2(40) := 'Look Before You Leap';
noofwords NUMBER(4) := 1;
s        CHAR;
```

BEGIN

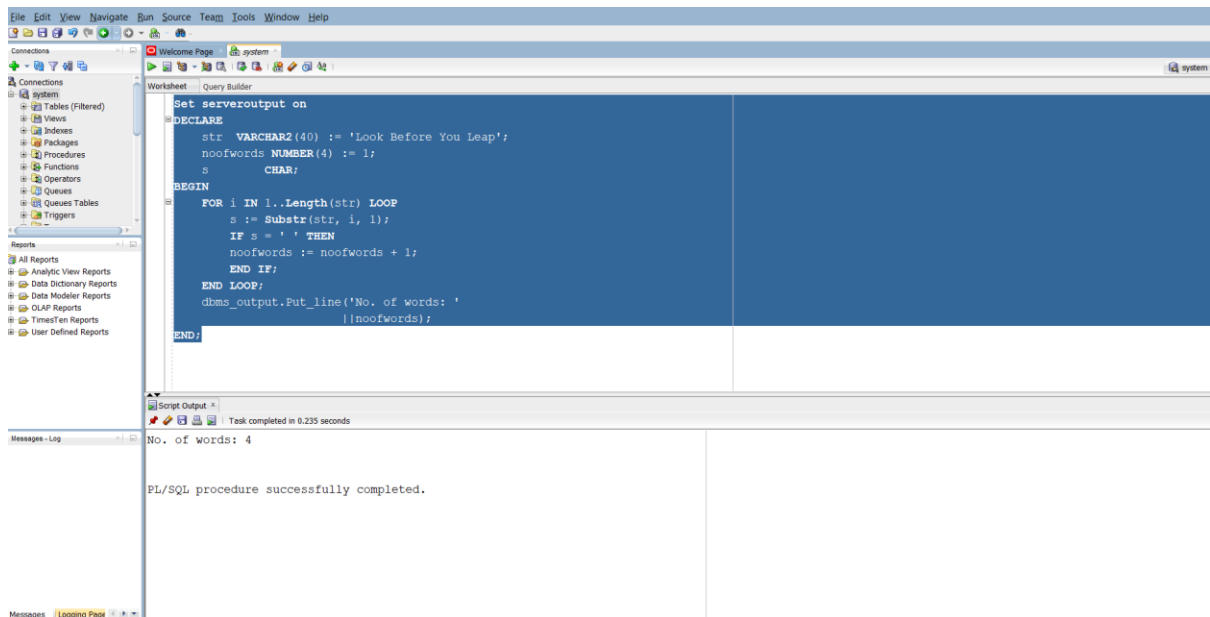
```
FOR i IN 1..Length(str) LOOP
    s := Substr(str, i, 1);
    IF s = ' ' THEN
        noofwords := noofwords + 1;
    END IF;
END LOOP;
```

```
END LOOP;
```

```
dbms_output.Put_line('No. of words: ')
```

```
||noofwords);
```

END;



3. Check in Palindrome

Solution:

Set serveroutput on

DECLARE

s VARCHAR2(10) := 'Hindustan';

l VARCHAR2(20);

t VARCHAR2(10);

BEGIN

FOR i IN REVERSE 1..Length(s) LOOP

l := Substr(s, i, 1);

t := t

||"

|||;

END LOOP;

IF t = s THEN

dbms_output.Put_line(t

||"

||' is palindrome');

ELSE

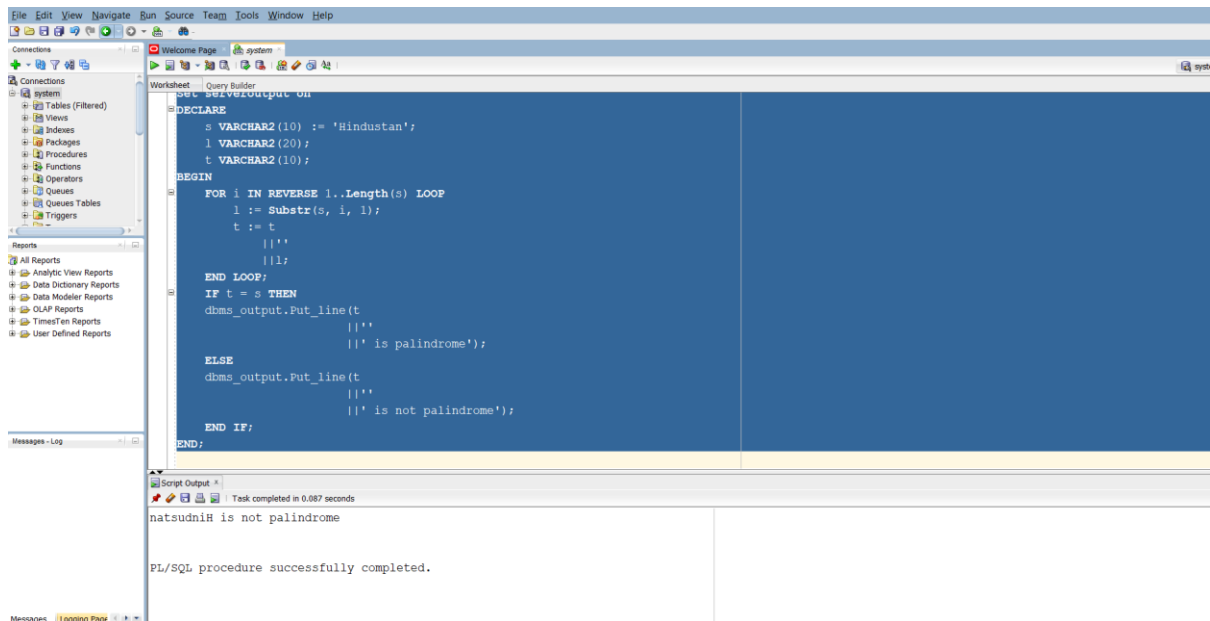
```
dbms_output.Put_line(t
```

```
||"
```

```
||' is not palindrome');
```

```
END IF;
```

```
END;
```



4. Write a package specification and body with a procedure to insert given data.

Solution:

Set serveroutput on

create or replace package EMP_DESIGNATION as procedure

EMP_DETAILS;

end EMP_DESIGNATION;

/

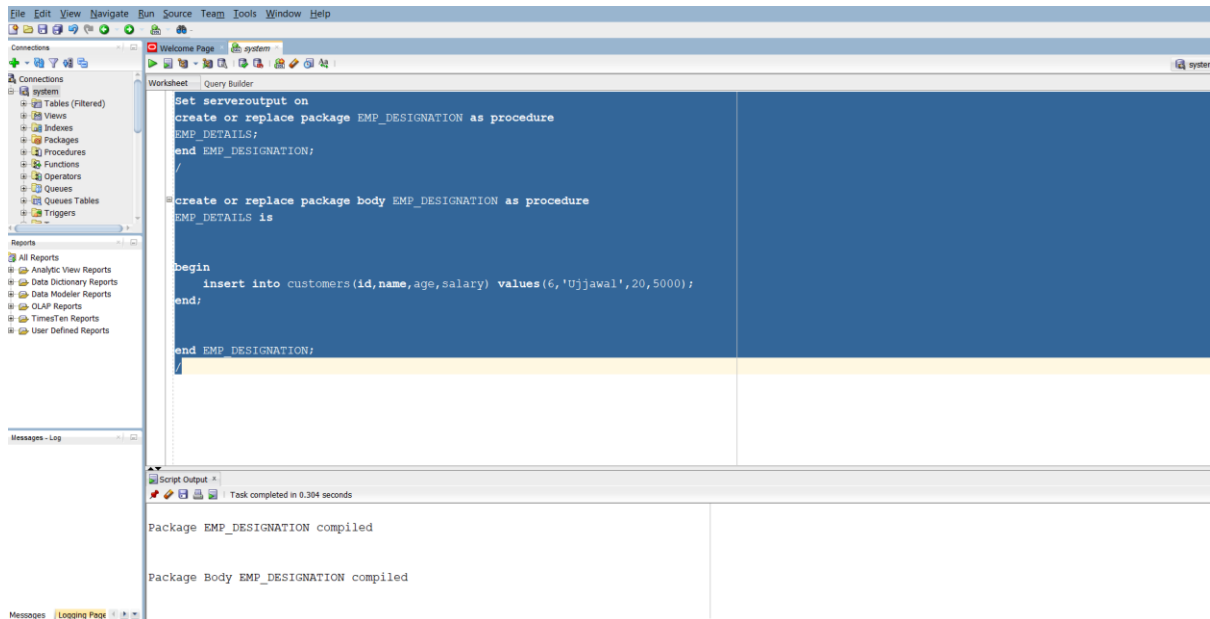
create or replace package body EMP_DESIGNATION as procedure

EMP_DETAILS is

begin

```
insert into customers(id,name,age,salary) values(6,'Ujjawal',20,5000);

end;
```



5. Write a package specification and body to delete mentioned Id.

Solution:

Set serveroutput on

drop table employee;

CREATE TABLE Employee

(

Employee_ID NUMBER primary key,NAME VARCHAR(20),AGE NUMBER,SALARY NUMBER);

INSERT INTO Employee VALUES(1,'RAMESH',32,2000);

INSERT INTO Employee VALUES(2,'KHILAN',25,1500);

INSERT INTO Employee VALUES(3,'POOJA',23,2000);

INSERT INTO Employee VALUES(4,'RAMA',20,6500);

INSERT INTO Employee VALUES(5,'ROHIT',32,4500);

create or replace package EMP_DESIGNATION as procedure

EMP_DETAILS(id number);

```

end EMP_DESIGNATION;

/

create or replace package body EMP_DESIGNATION as procedure

EMP_DETAILS(id number) is

begin

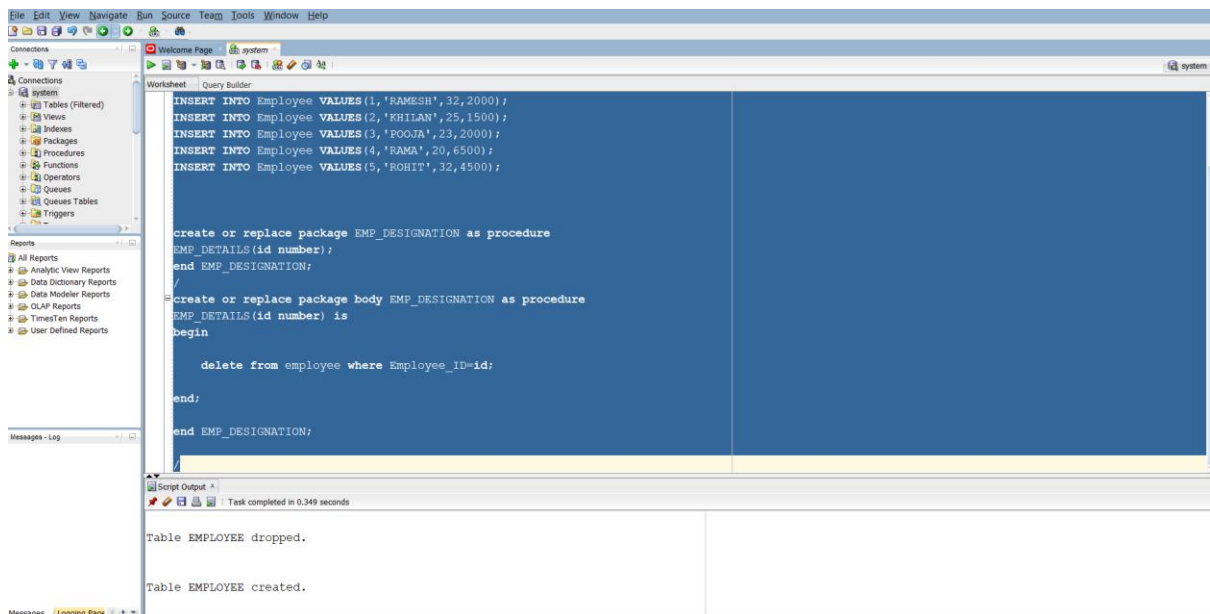
    delete from employee where Employee_ID=id;

end;

end EMP_DESIGNATION;

/

```



6. Fetching some details from table and displaying it.

Solution:

Set serveroutput on

declare

cursor c_name is select * from customers;

begin

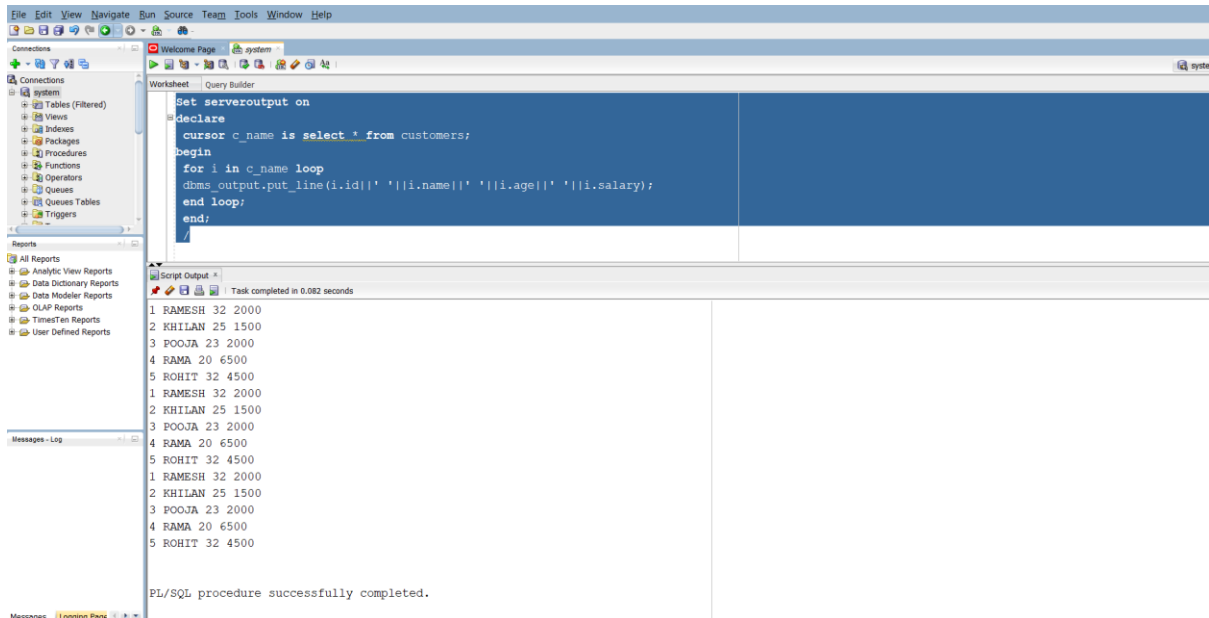
for i in c_name loop

dbms_output.put_line(i.id||' '||i.name||' '||i.age||' '||i.salary);

end loop;

end;

/



The screenshot displays the Oracle SQL Developer environment. The main window shows a PL/SQL script being executed. The script is as follows:

```
set serveroutput on
declare
cursor c_name is select * from customers;
begin
for i in c_name loop
dbms_output.put_line(i.id||' '||i.name||' '||i.age||' '||i.salary);
end loop;
end;
```

The script output window shows the results of the loop, displaying the ID, name, age, and salary for each customer in the 'customers' table. The output is as follows:

```
1 RAMESH 32 2000
2 KHILAN 25 1500
3 POOJA 23 2000
4 RAMA 20 6500
5 ROHIT 32 4500
1 RAMESH 32 2000
2 KHILAN 25 1500
3 POOJA 23 2000
4 RAMA 20 6500
5 ROHIT 32 4500
1 RAMESH 32 2000
2 KHILAN 25 1500
3 POOJA 23 2000
4 RAMA 20 6500
5 ROHIT 32 4500
```

The status bar at the bottom indicates that the PL/SQL procedure was successfully completed.