

11-09-2024

DBMS Lab

HU22CSEN0100287

Pl/sql for square

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\H-CSE-506-38> sqlplus hu22csen0100287/seswarap@//172.21.51.130:1521/orclpdb

SQL*Plus: Release 23.0.0.0.0 - Production on Wed Sep 11 10:14:15 2024
Version 23.4.0.24.05

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Connected to:
Oracle Database 21c Enterprise Edition Release 21.0.0.0.0 - Production
Version 21.3.0.0.0

SQL> ed hoo.sql

SQL> set serveroutput on

SQL> ed hoo.sql

SQL> set serveroutput on
SQL> @ hoo.sql
900

PL/SQL procedure successfully completed.

SQL> |
```

```
hoo.sql
File Edit View

declare
a number:=30;|
begin
dbms_output.put_line(a*a);
end;
/
```

## Procedure for sum of 3 nos

```
SQL> ed q2.sql
```

```
SQL> @ q2.sql
```

```
Procedure created.
```

```
Enter value for n1: 1
old   3:      n1 NUMBER := &n1;
new   3:      n1 NUMBER := 1;
Enter value for n2: 2
old   4:      n2 NUMBER := &n2;
new   4:      n2 NUMBER := 2;
Enter value for n3: 3
old   5:      n3 NUMBER := &n3;
new   5:      n3 NUMBER := 3;
```

```
PL/SQL procedure successfully completed.
```

```
SQL> ed q2.sql
```

```
SQL> SET SERVEROUTPUT ON;
SQL> ed q2.sql
```

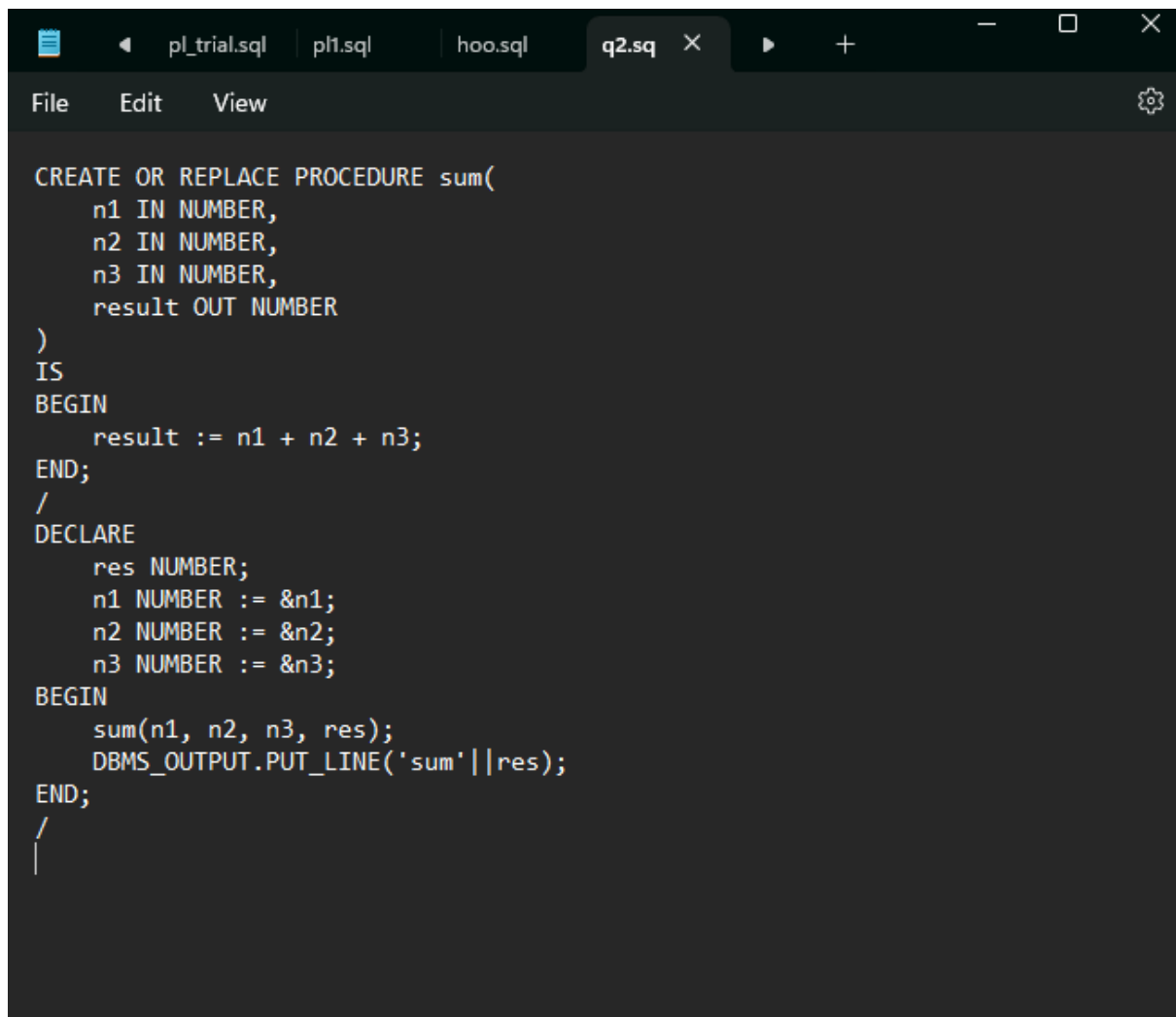
```
SQL> @ q2.sql
```

```
Procedure created.
```

```
Enter value for n1: 1
old   3:      n1 NUMBER := &n1;
new   3:      n1 NUMBER := 1;
Enter value for n2: 2
old   4:      n2 NUMBER := &n2;
new   4:      n2 NUMBER := 2;
Enter value for n3: 3
old   5:      n3 NUMBER := &n3;
new   5:      n3 NUMBER := 3;
sum6
```

```
PL/SQL procedure successfully completed.
```

```
SQL> |
```



```
CREATE OR REPLACE PROCEDURE sum(  
    n1 IN NUMBER,  
    n2 IN NUMBER,  
    n3 IN NUMBER,  
    result OUT NUMBER  
)  
IS  
BEGIN  
    result := n1 + n2 + n3;  
END;  
/  
DECLARE  
    res NUMBER;  
    n1 NUMBER := &n1;  
    n2 NUMBER := &n2;  
    n3 NUMBER := &n3;  
BEGIN  
    sum(n1, n2, n3, res);  
    DBMS_OUTPUT.PUT_LINE('sum' || res);  
END;  
/  
|
```

Function to find greatest of 2 nos

```
SQL> ed q3.sql
```

```
SQL> @ q3.sql
```

```
Function created.
```

```
Enter value for num1: 1
```

```
old 3:      num1 NUMBER := &num1;
```

```
new 3:      num1 NUMBER := 1;
```

```
Enter value for num2: 3
```

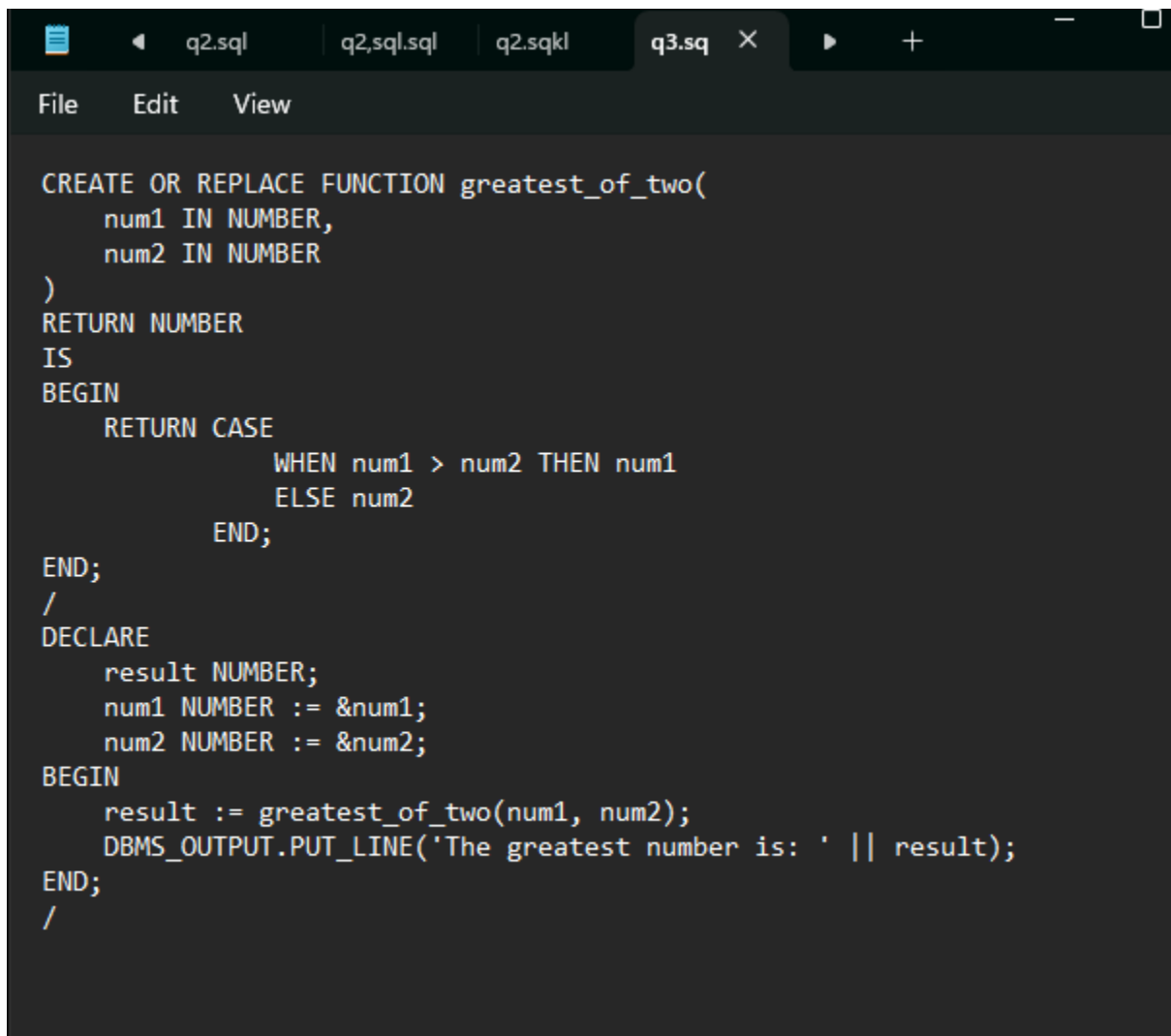
```
old 4:      num2 NUMBER := &num2;
```

```
new 4:      num2 NUMBER := 3;
```

```
The greatest number is: 3
```

```
PL/SQL procedure successfully completed.
```

```
SQL> |
```



```
CREATE OR REPLACE FUNCTION greatest_of_two(
    num1 IN NUMBER,
    num2 IN NUMBER
)
RETURN NUMBER
IS
BEGIN
    RETURN CASE
        WHEN num1 > num2 THEN num1
        ELSE num2
    END;
END;
/
DECLARE
    result NUMBER;
    num1 NUMBER := &num1;
    num2 NUMBER := &num2;
BEGIN
    result := greatest_of_two(num1, num2);
    DBMS_OUTPUT.PUT_LINE('The greatest number is: ' || result);
END;
/
```

Trigger which copies values into table when  
inserted into the first table

```

SQL> CREATE TABLE source_table (id NUMBER PRIMARY KEY,name VARCHAR2(100),value NUMBER);
Table created.

SQL> CREATE TABLE target_table (id NUMBER PRIMARY KEY,name VARCHAR2(100),value NUMBER);
Table created.

SQL> ed q4.sql
SQL> @ q4.sql
Trigger created.


SQL> INSERT INTO source_table (id, name, value) VALUES (1, 'Sample Name', 123);
1 row created.

SQL> SELECT * FROM target_table;

      ID
-----
NAME
-----
VALUE
-----
      1
Sample Name
      123

SQL> |

```


q2.sql.sql
q2.sql
q3.sql
q4.sql
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```

CREATE OR REPLACE TRIGGER trg_after_insert_source
AFTER INSERT ON source_table
FOR EACH ROW
BEGIN
    INSERT INTO target_table (id, name, value)
    VALUES (:NEW.id, :NEW.name, :NEW.value);
END;
/

```