**Diferenta de timp dintre o procedura cu NOCOPY si una fara, pe o colectie mare**

Mai intai am creat o tabela cu 10 milioane de randuri:

CREATE TABLE large\_table (

id NUMBER,

name VARCHAR2(100),

description VARCHAR2(500)

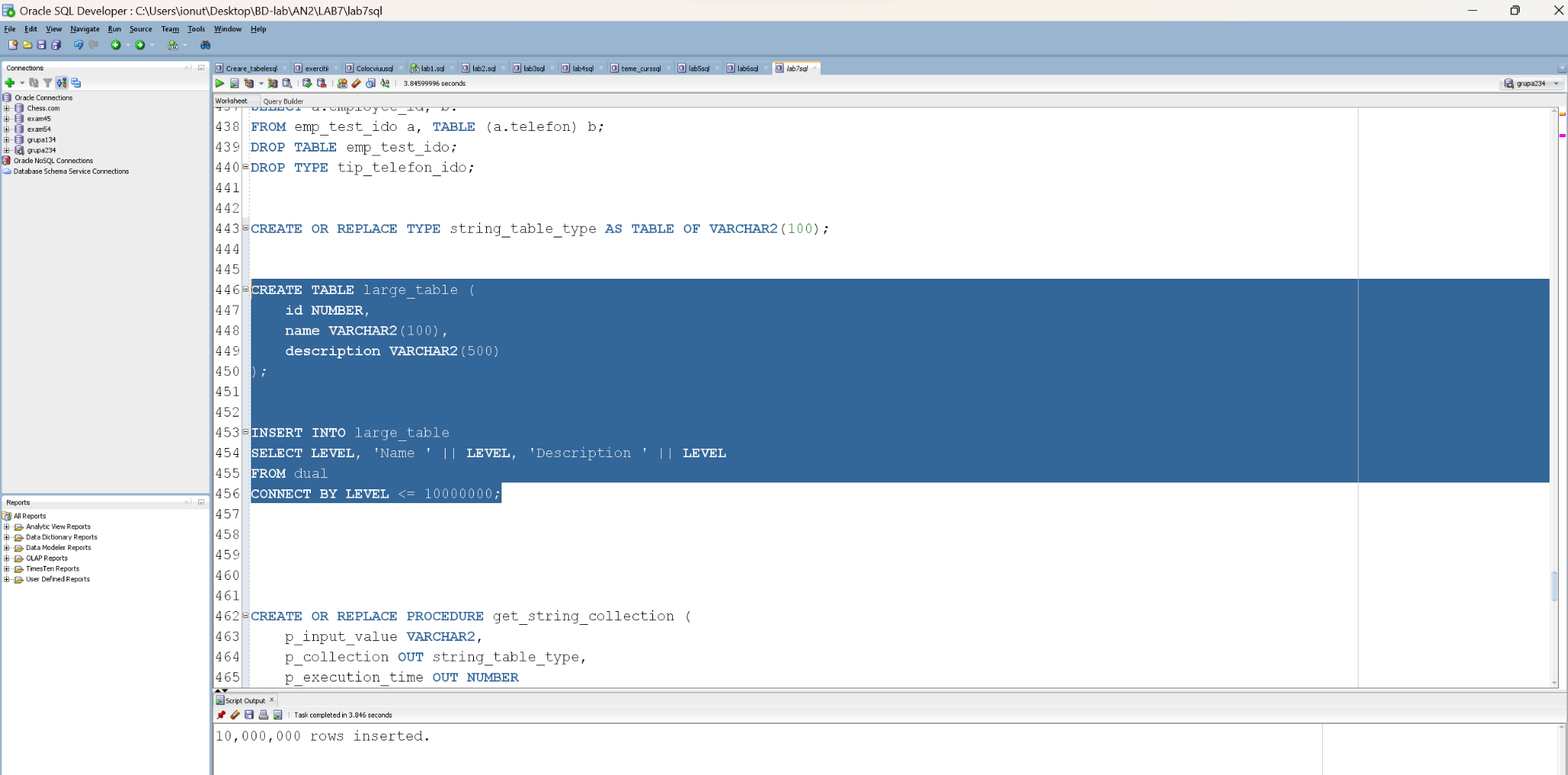
);

INSERT INTO large\_table

SELECT LEVEL, 'Name ' || LEVEL, 'Description ' || LEVEL

FROM dual

CONNECT BY LEVEL <= 10000000;



Dupa aceea am creat o procedura fara NOCOPY.  
  
CREATE OR REPLACE PROCEDURE get\_string\_collection (

p\_input\_value VARCHAR2,

p\_collection OUT string\_table\_type,

p\_execution\_time OUT NUMBER

) IS

v\_start\_time TIMESTAMP;

v\_end\_time TIMESTAMP;

BEGIN

v\_start\_time := SYSTIMESTAMP;

SELECT name

BULK COLLECT INTO p\_collection

FROM large\_table

WHERE description = p\_input\_value;

v\_end\_time := SYSTIMESTAMP;

p\_execution\_time := EXTRACT(SECOND FROM (v\_end\_time - v\_start\_time));

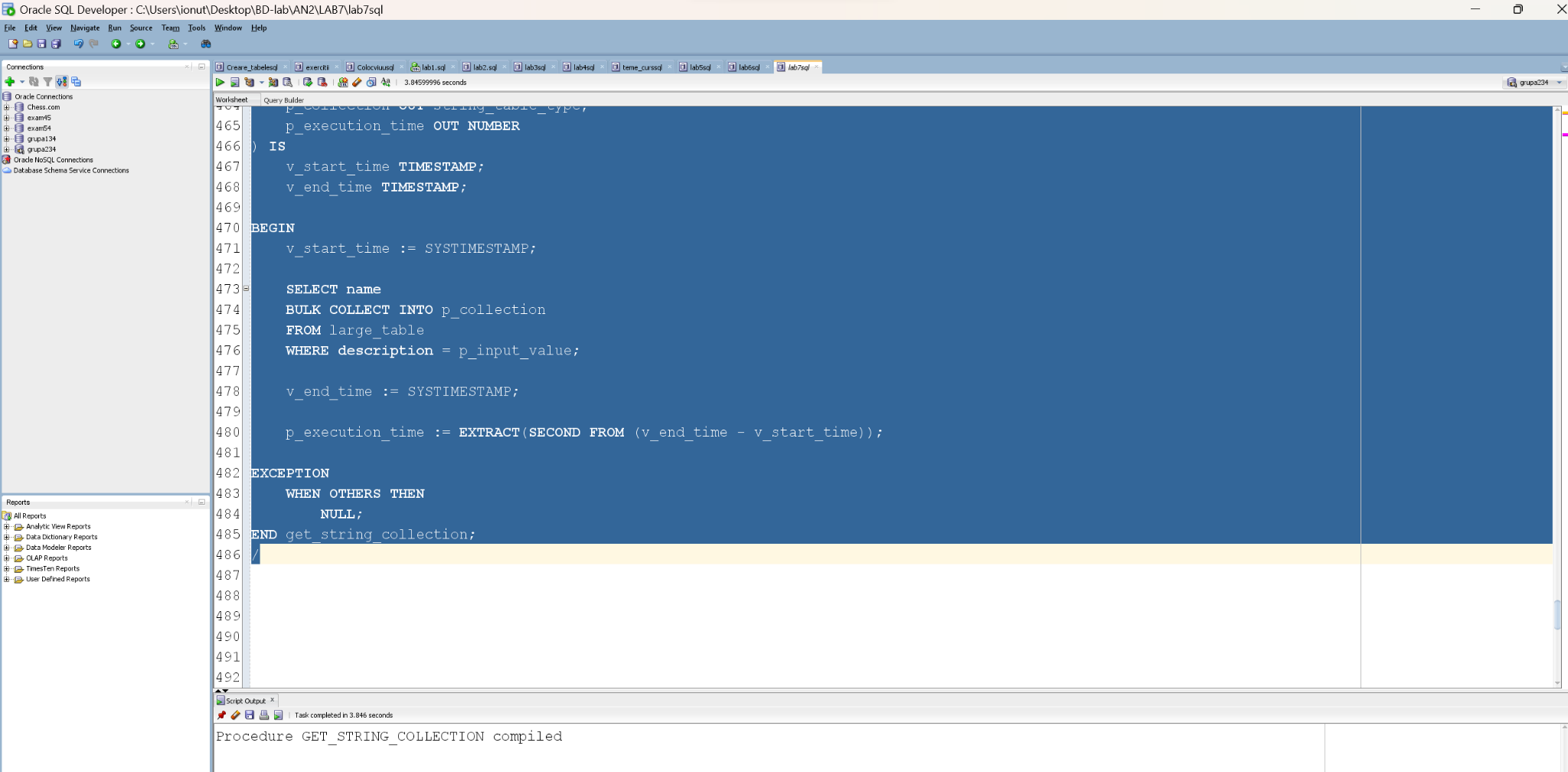
EXCEPTION

WHEN OTHERS THEN

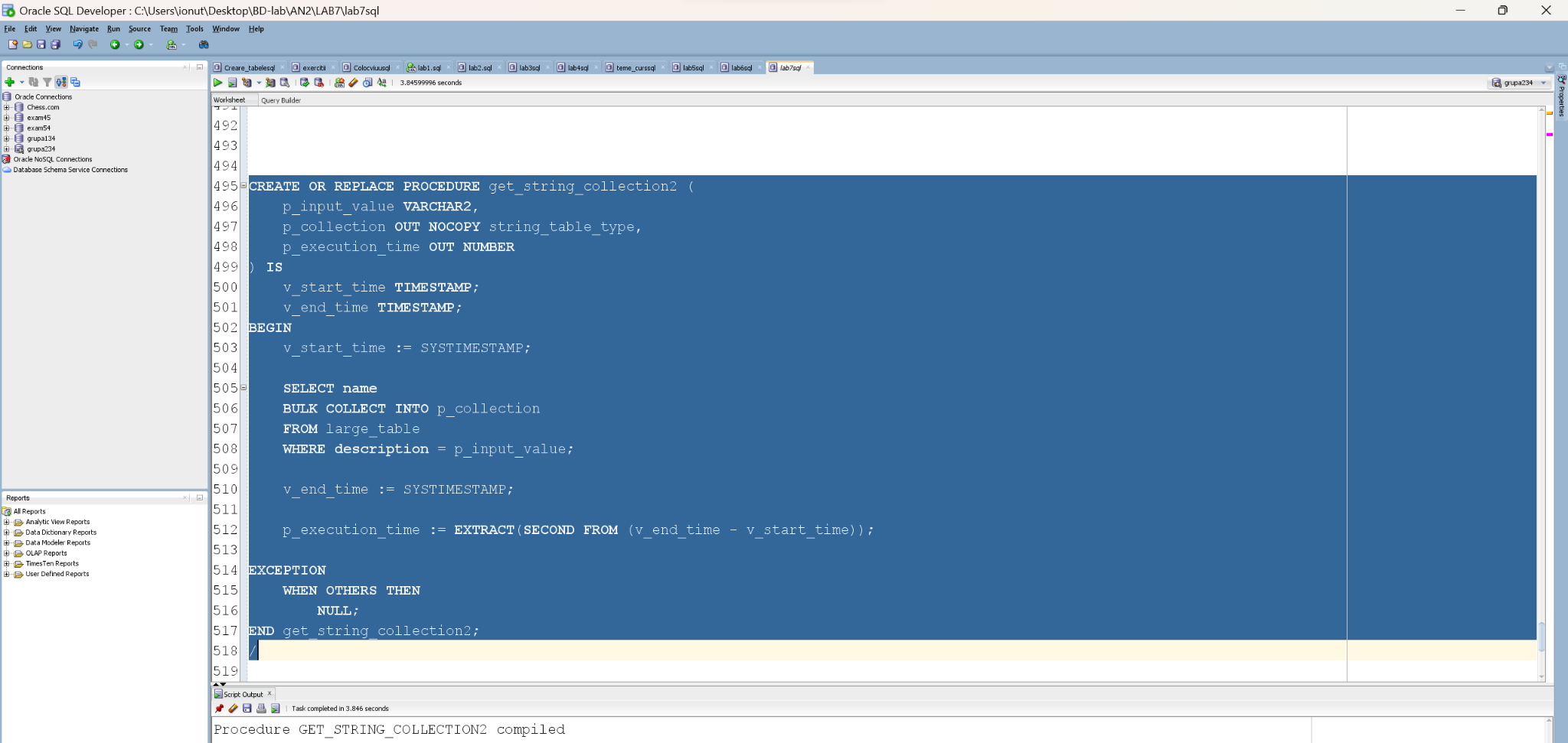
NULL;

END get\_string\_collection;

/



Am creat si procedura cu NOCOPY.



Aceste proceduri masoara si timpul de executie.

In final, le-am comparat, apelandu-le pe ambele in acelasi bloc de executie:

DECLARE

my\_collection1 string\_table\_type;

execution\_time1 NUMBER;

my\_collection2 string\_table\_type;

execution\_time2 NUMBER;

BEGIN

-- Measure time for get\_string\_collection

get\_string\_collection('Description 1', my\_collection1, execution\_time1);

DBMS\_OUTPUT.PUT\_LINE('Execution Time for get\_string\_collection: ' || execution\_time1 || ' seconds');

-- Measure time for get\_string\_collection2 with NOCOPY

get\_string\_collection2('Description 1', my\_collection2, execution\_time2);

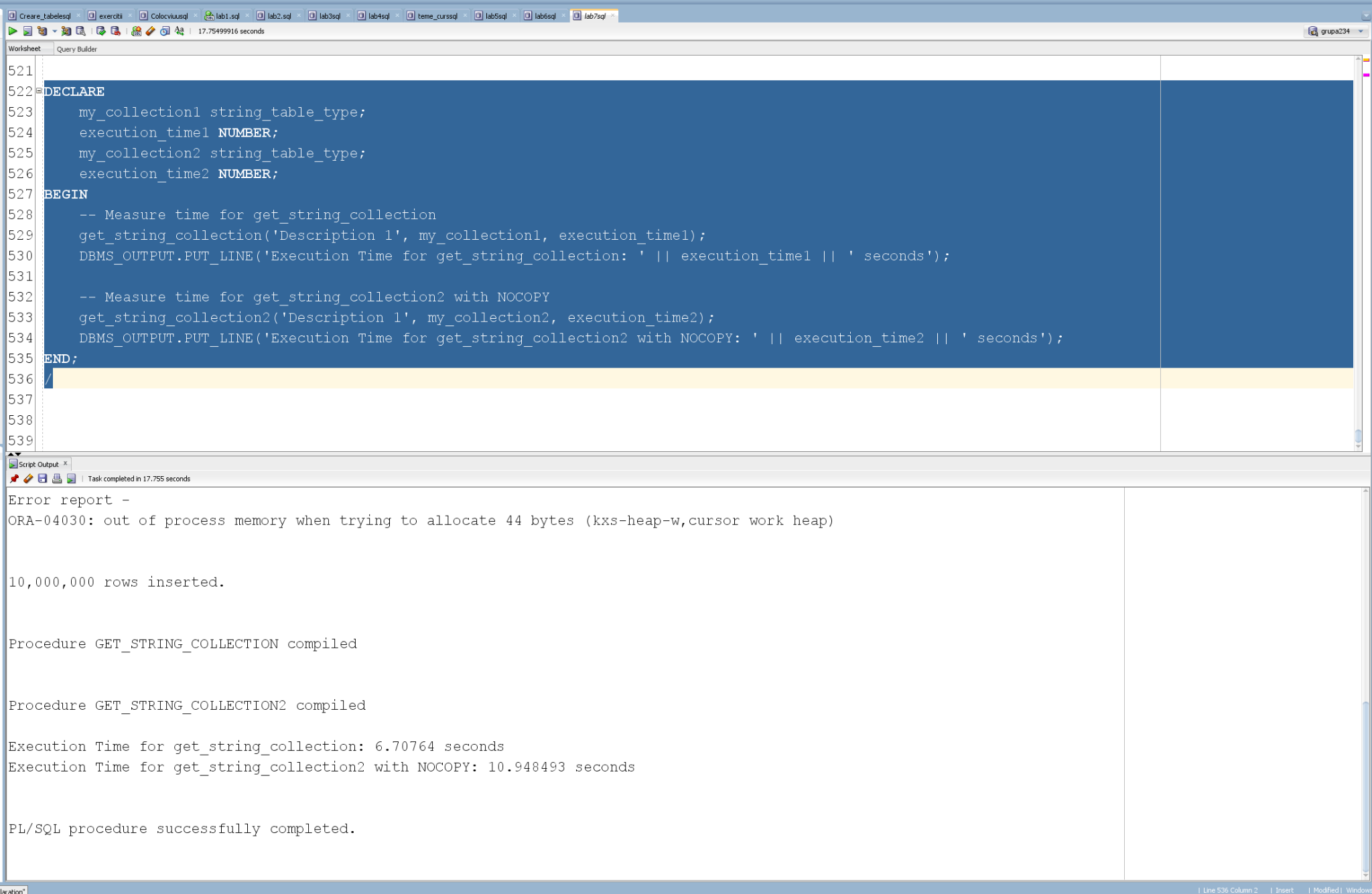
DBMS\_OUTPUT.PUT\_LINE('Execution Time for get\_string\_collection2 with NOCOPY: ' || execution\_time2 || ' seconds');

END;

/

Unde string\_table\_type este:

CREATE OR REPLACE TYPE string\_table\_type AS TABLE OF VARCHAR2(100);



**Concluzie:**

Asadar, conform testului pe care l-am efectuat, varianta fara NOCOPY a rulat mai rapid, si se observa o diferenta semnificativa pentru timpul de rulare pe o colectie cu multe date.