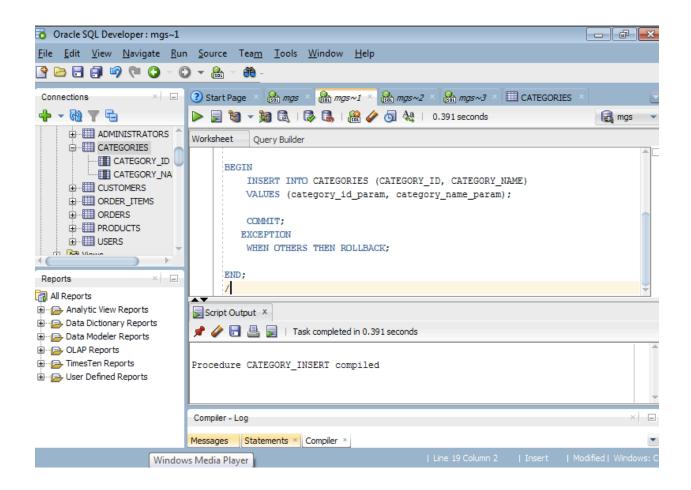
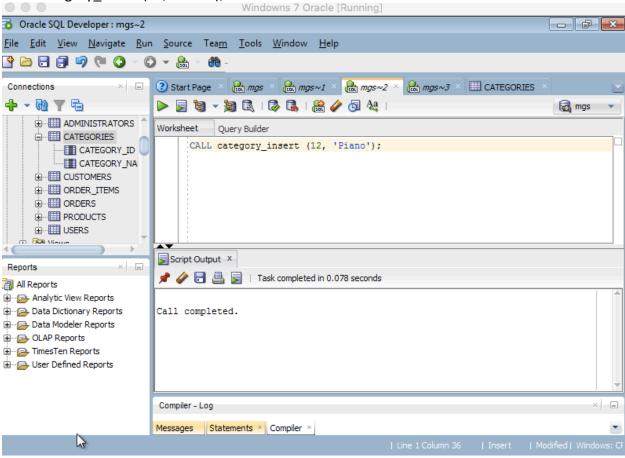
Domas Budrys Assignment 7 – CSCI 4430

```
1.
CREATE OR REPLACE PROCEDURE category_insert
(
    category_id_param NUMBER,
    category_name_param VARCHAR2
)
AS
BEGIN
    INSERT INTO CATEGORIES (CATEGORY_ID, CATEGORY_NAME)
    VALUES (category_id_param, category_name_param);

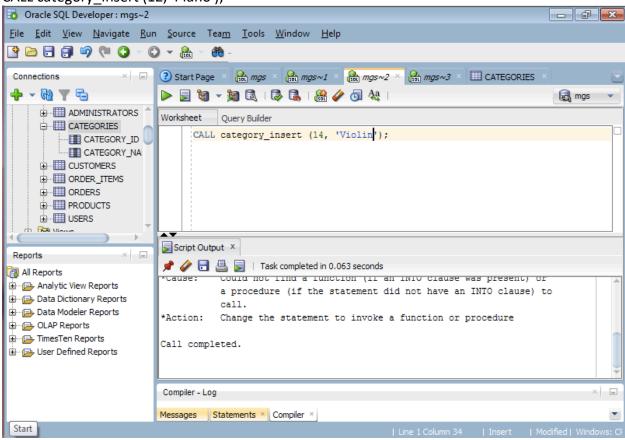
COMMIT;
    EXCEPTION
    WHEN OTHERS THEN ROLLBACK;
END;
//
```



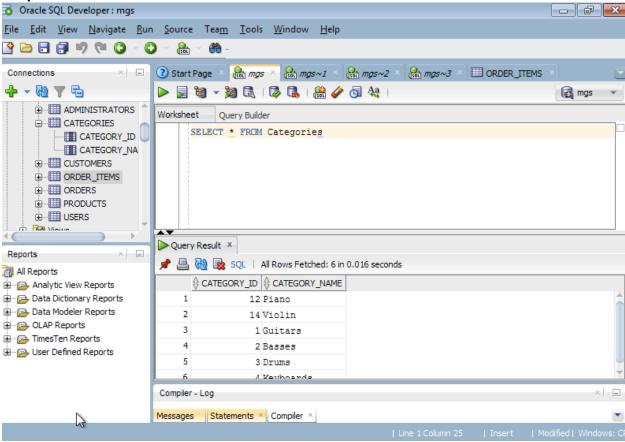
CALL category_insert (14, 'Violin');



CALL category_insert (12, 'Piano');



Output:



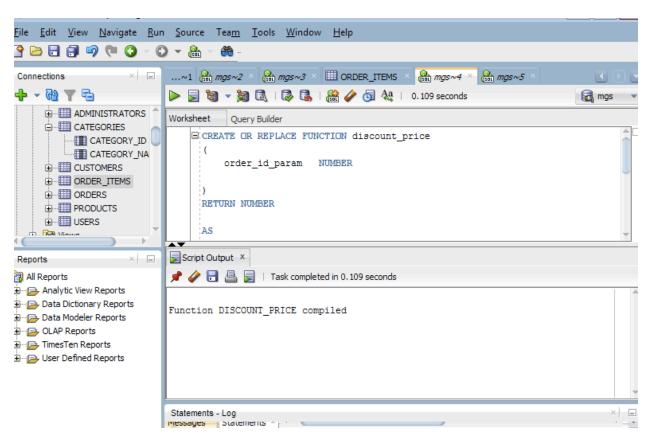
```
2.
```

```
CREATE OR REPLACE FUNCTION discount_price
(
    order_id_param NUMBER
)

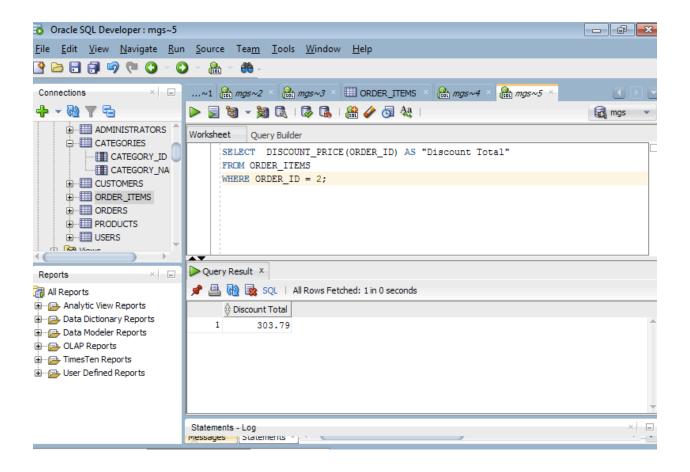
RETURN NUMBER
AS
    order_id_var NUMBER;

BEGIN
    SELECT ITEM_PRICE - DISCOUNT_AMOUNT AS "TotalSOme"
    INTO order_id_var
    FROM ORDER_ITEMS
    WHERE ORDER_ID = order_id_param;

RETURN order_id_var;
END;
```



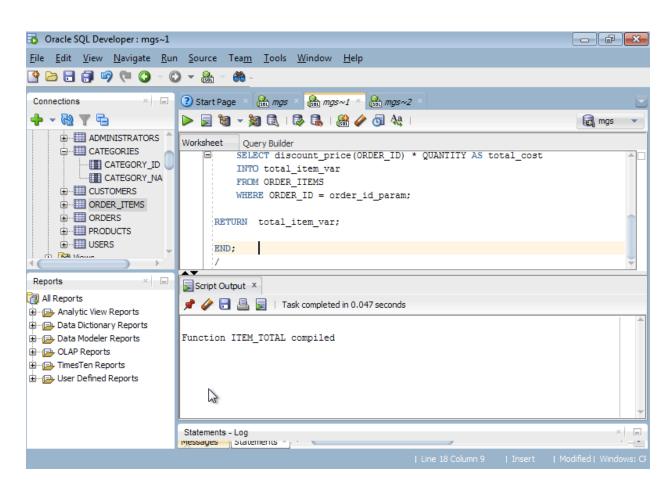
SELECT DISCOUNT_PRICE(ORDER_ID) AS "Discount Total" FROM ORDER_ITEMS
WHERE ORDER_ID = 2;



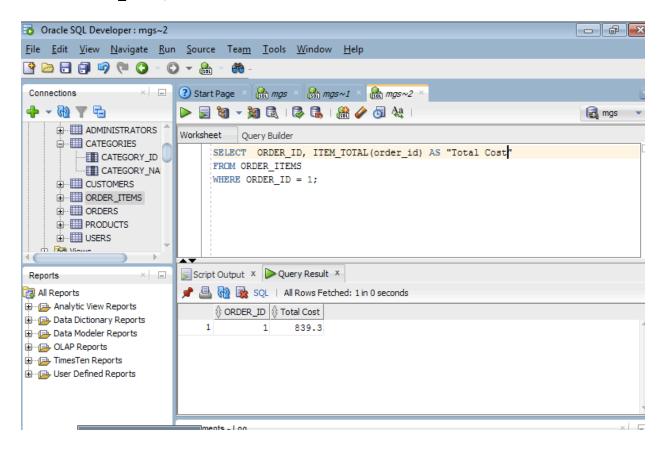
```
3.
CREATE OR REPLACE FUNCTION item_total
(
    order_id_param NUMBER
)
RETURN NUMBER
AS
    total_item_var NUMBER;

BEGIN
    SELECT discount_price(ORDER_ID) * QUANTITY AS total_cost
    INTO total_item_var
    FROM ORDER_ITEMS
    WHERE ORDER_ID = order_id_param;

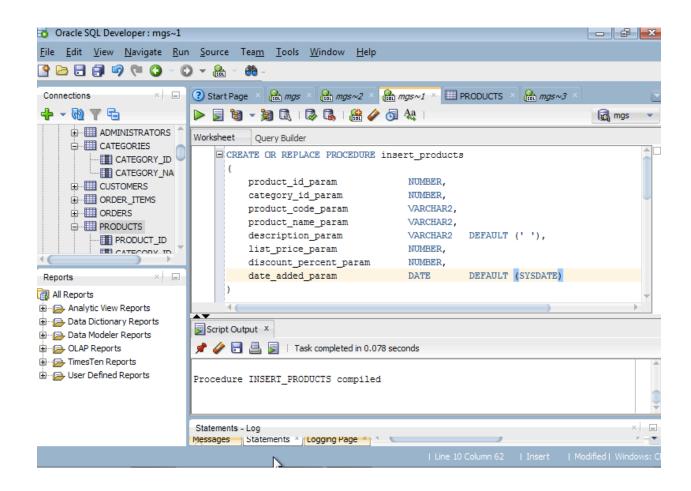
RETURN total_item_var;
END;
//
```



SELECT ORDER_ID, ITEM_TOTAL(order_id) AS "Total Cost" FROM ORDER_ITEMS WHERE ORDER ID = 1;



```
4.
CREATE OR REPLACE PROCEDURE insert products
 product id param
                        NUMBER,
 category id param
                        NUMBER,
 product code param
                         VARCHAR2,
 product_name_param
                          VARCHAR2,
 description_param
                       VARCHAR2 DEFAULT (''),
 list_price_param
                      NUMBER,
 discount percent param
                           NUMBER,
 date added param
                         DATE
                                 DEFAULT (SYSDATE)
)
AS
BEGIN
 IF
   list price param < 0 THEN
   RAISE VALUE ERROR;
 END IF;
   discount_percent_param < 0 THEN
   RAISE VALUE ERROR;
 END IF;
 INSERT INTO PRODUCTS (PRODUCT ID, CATEGORY ID, PRODUCT CODE, PRODUCT NAME,
             DESCRIPTION, LIST_PRICE, DISCOUNT_PERCENT, DATE_ADDED)
 VALUES(product id param, category id param, product code param,
product_name_param,
     description param, list price param, discount percent param, date added param);
COMMIT;
END;
```



SET SERVEROUTPUT ON;

BEGIN

insert products (15, 1, 'Good', 'THINGS', '', 111, 23, SYSDATE);

EXCEPTION

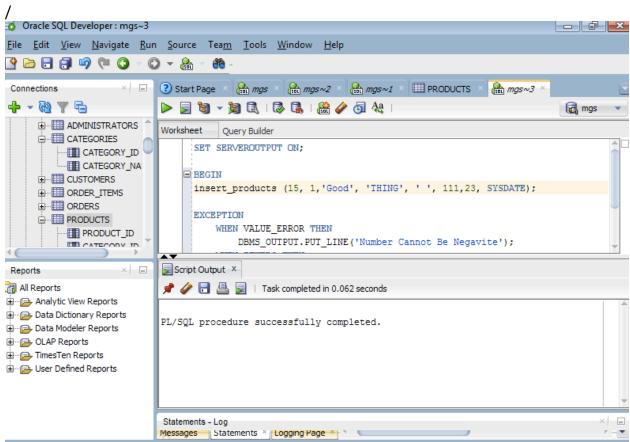
WHEN VALUE ERROR THEN

DBMS_OUTPUT_LINE('Number Cannot Be Negavite');

WHEN OTHERS THEN

DBMS OUTPUT.PUT LINE('This is unexpected Error');

END;



SET SERVEROUTPUT ON;

BEGIN

insert products (15, 1, 'BAD', 'THINGS', '', 111, -23, SYSDATE);

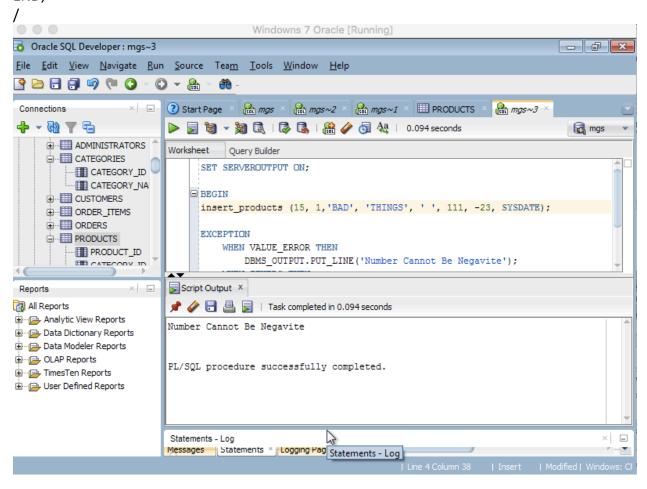
EXCEPTION

WHEN VALUE_ERROR THEN

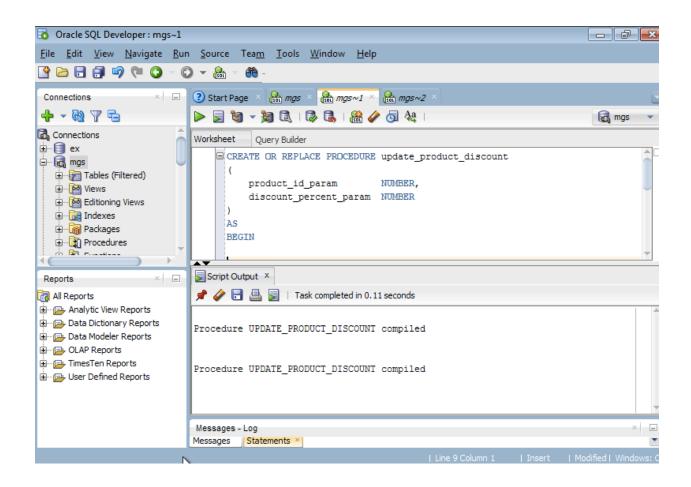
DBMS_OUTPUT.PUT_LINE('Number Cannot Be Negavite');
WHEN OTHERS THEN

DBMS OUTPUT.PUT LINE('This is unexpected Error');

END;



```
5.
CREATE OR REPLACE PROCEDURE update_product_discount
 product_id_param
                     NUMBER,
 discount_percent_param NUMBER
)
AS
BEGIN
 ΙF
   discount_percent_param < 0 THEN
   RAISE VALUE_ERROR;
 END IF;
 UPDATE PRODUCTS
 SET discount_percent = discount_percent_param
 WHERE product_id = product_id_param;
COMMIT;
END;
```



```
SET SERVEROUTPUT ON;

BEGIN

update_product_discount(2, -17);

EXCEPTION

WHEN VALUE_ERROR THEN

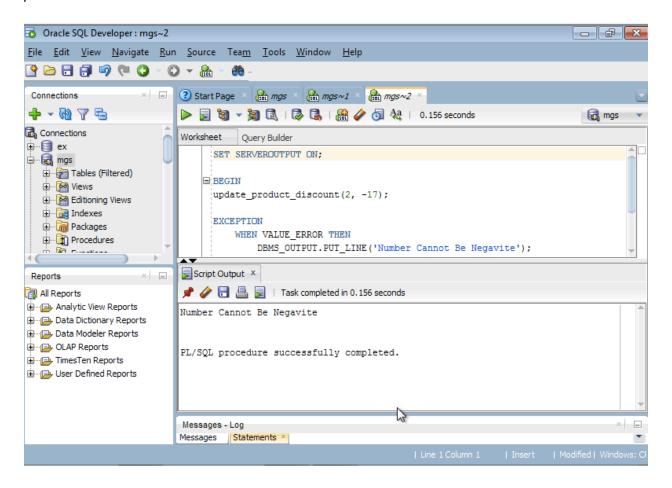
DBMS_OUTPUT.PUT_LINE('Number Cannot Be Negavite');

WHEN OTHERS THEN

DBMS_OUTPUT.PUT_LINE('This is unexpected Error');

END;

/
```

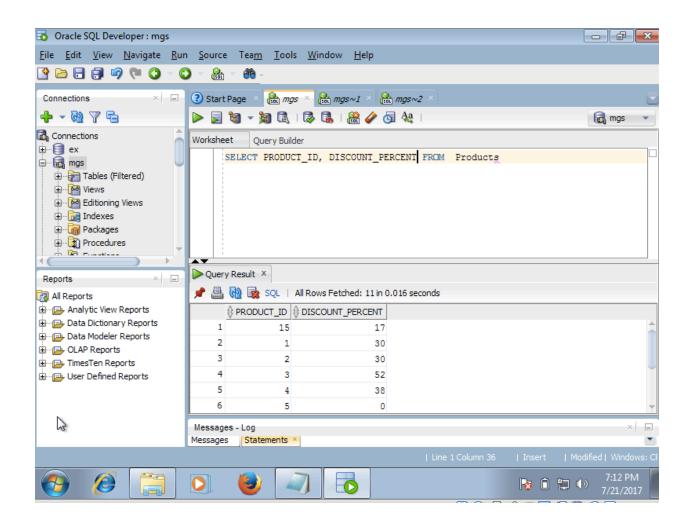


```
SET SERVEROUTPUT ON;

BEGIN
update_product_discount(15, 20);

EXCEPTION
WHEN VALUE_ERROR THEN
DBMS_OUTPUT.PUT_LINE('Number Cannot Be Negavite');
WHEN OTHERS THEN
DBMS_OUTPUT.PUT_LINE('This is unexpected Error');

END;
/
```



Updated Products Table:

