Budrys Assignment 8

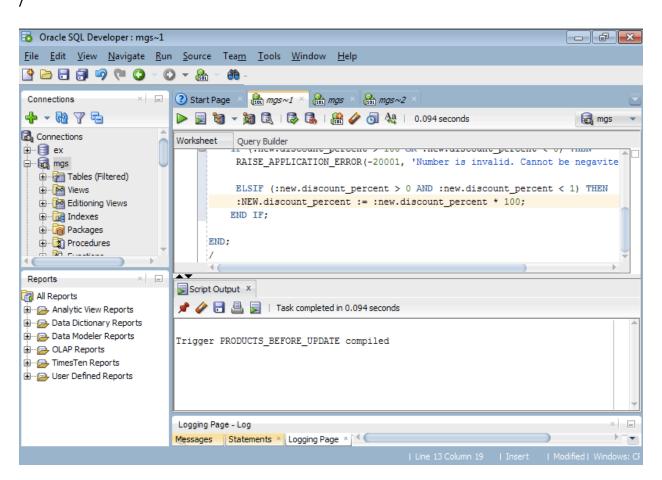
1.
CREATE OR REPLACE TRIGGER products_before_update
BEFORE UPDATE OF discount_percent
ON Products
FOR EACH ROW

BEGIN

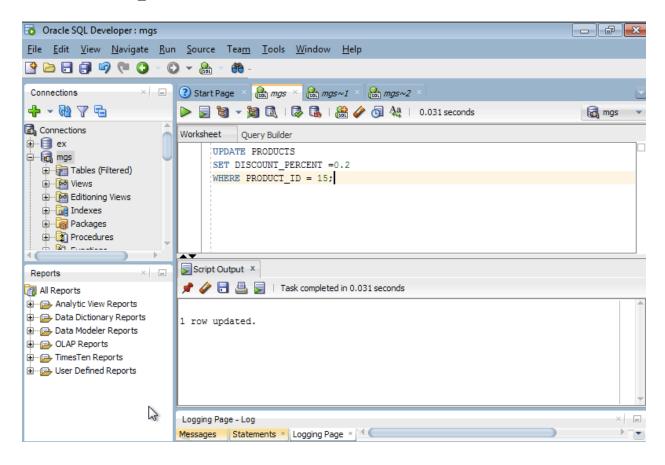
IF (:new.discount_percent > 100 OR :new.discount_percent < 0) THEN
 RAISE_APPLICATION_ERROR(-20001, 'Number is invalid. Cannot be negavite or more than
100');</pre>

ELSIF (:new.discount_percent > 0 AND :new.discount_percent < 1) THEN
:NEW.discount_percent := :new.discount_percent * 100;
END IF;</pre>

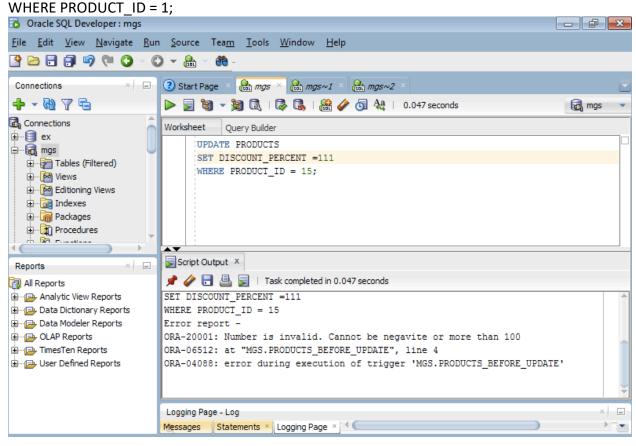
END;



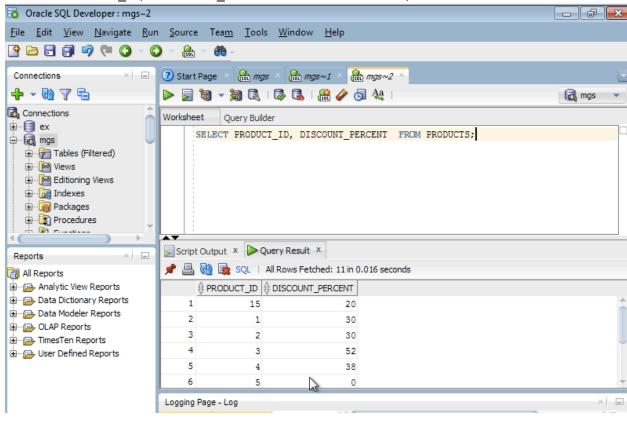
UPDATE PRODUCTS SET DISCOUNT_PERCENT =0.2 WHERE PRODUCT_ID = 15;



UPDATE PRODUCTS SET DISCOUNT_PERCENT =111



SELECT PRODUCT ID, DISCOUNT PERCENT FROM PRODUCTS;



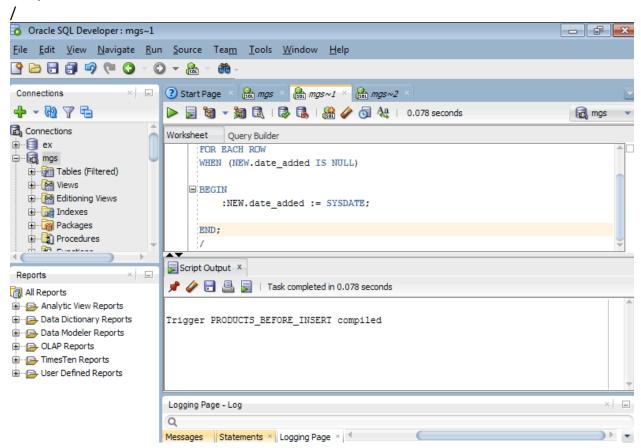
2.

CREATE OR REPLACE TRIGGER products_before_insert BEFORE INSERT ON Products FOR EACH ROW WHEN (NEW.date_added IS NULL)

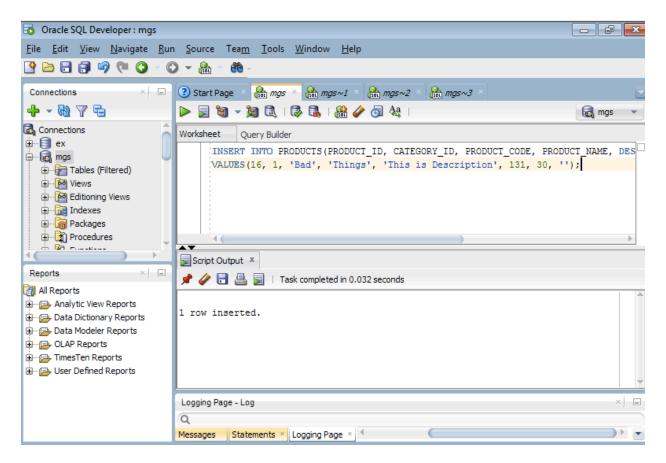
BEGIN

:NEW.date_added := SYSDATE;

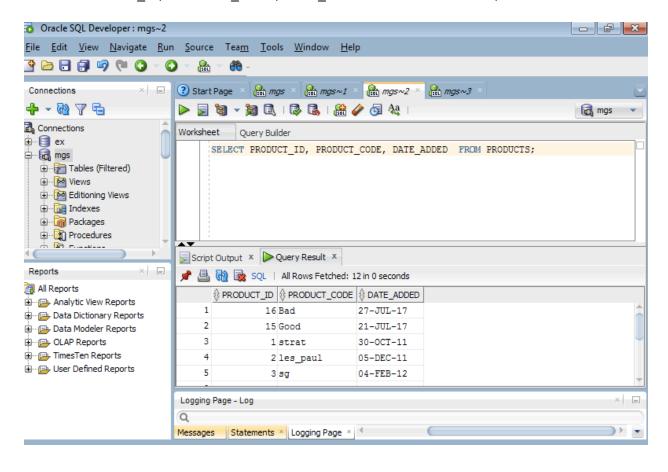
END;



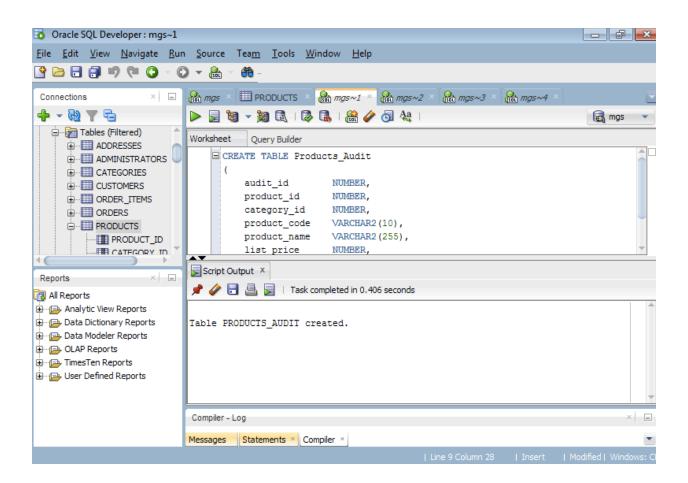
INSERT INTO PRODUCTS(PRODUCT_ID, CATEGORY_ID, PRODUCT_CODE, PRODUCT_NAME, DESCRIPTION, LIST_PRICE, DISCOUNT_PERCENT, DATE_ADDED)
VALUES(16, 1, 'Bad', 'Things', 'This is Description', 131, 30, '');



SELECT PRODUCT_ID, PRODUCT_CODE, DATE_ADDED FROM PRODUCTS;



```
CREATE TABLE Products_Audit
(
    audit_id NUMBER,
    product_id NUMBER,
    category_id NUMBER,
    product_code VARCHAR2(10),
    product_name VARCHAR2(255),
    list_price NUMBER,
    discount_percent NUMBER,
    date_updated DATE
);
```



CREATE OR REPLACE TRIGGER product_after_update
AFTER INSERT OR UPDATE
ON Products
FOR EACH ROW

BEGIN

IF INSERTING THEN

INSERT INTO PRODUCTS AUDIT VALUES

(AUDIT_SEQ.NEXTVAL, :new.product_id, :new.category_id, :new.product_code, :new.product_name, :new.list_price, :new.discount_percent, SYSDATE);

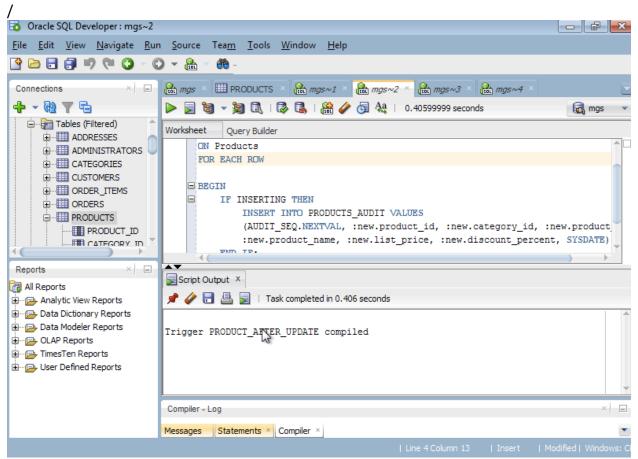
ELSIF UPDATING THEN

INSERT INTO PRODUCTS AUDIT VALUES

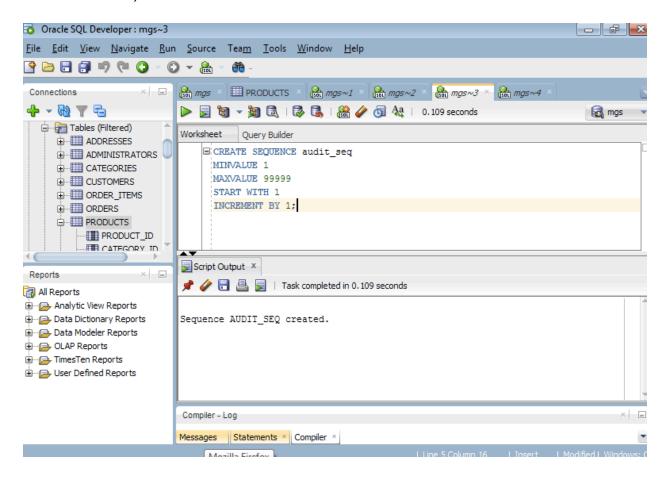
(AUDIT_SEQ.NEXTVAL, :new.product_id, :new.category_id, :new.product_code, :new.product_name, :new.list_price, :new.discount_percent, SYSDATE);

END IF;

END;

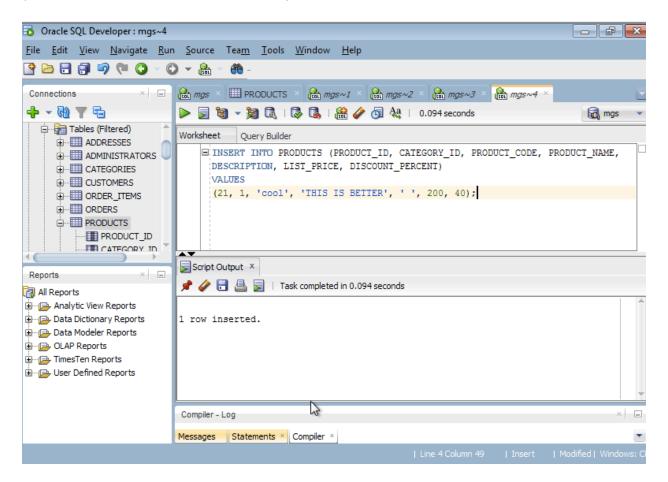


CREATE SEQUENCE audit_seq MINVALUE 1 MAXVALUE 99999 START WITH 1 INCREMENT BY 1;



INSERT INTO PRODUCTS (PRODUCT_ID, CATEGORY_ID, PRODUCT_CODE, PRODUCT_NAME, DESCRIPTION, LIST_PRICE, DISCOUNT_PERCENT)
VALUES

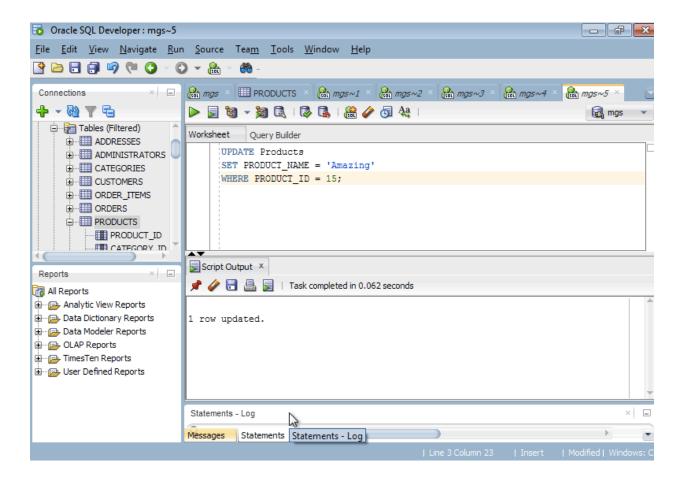
(21, 1, 'cool', 'THIS IS BETTER', '', 200, 40);



UPDATE Products

SET PRODUCT_NAME = 'Amazing'

WHERE PRODUCT_ID = 15;



SELECT * FROM PRODUCTS AUDIT

