Term Project – Deliverable 4

The changes that I have made to the business rule are as follows:

1. Added " product_catagory " as an attribute in the Product table
2. Added “product_price” as an attribute in the Product table

Creating tables and introducing some test values into the table

- Creating the tables

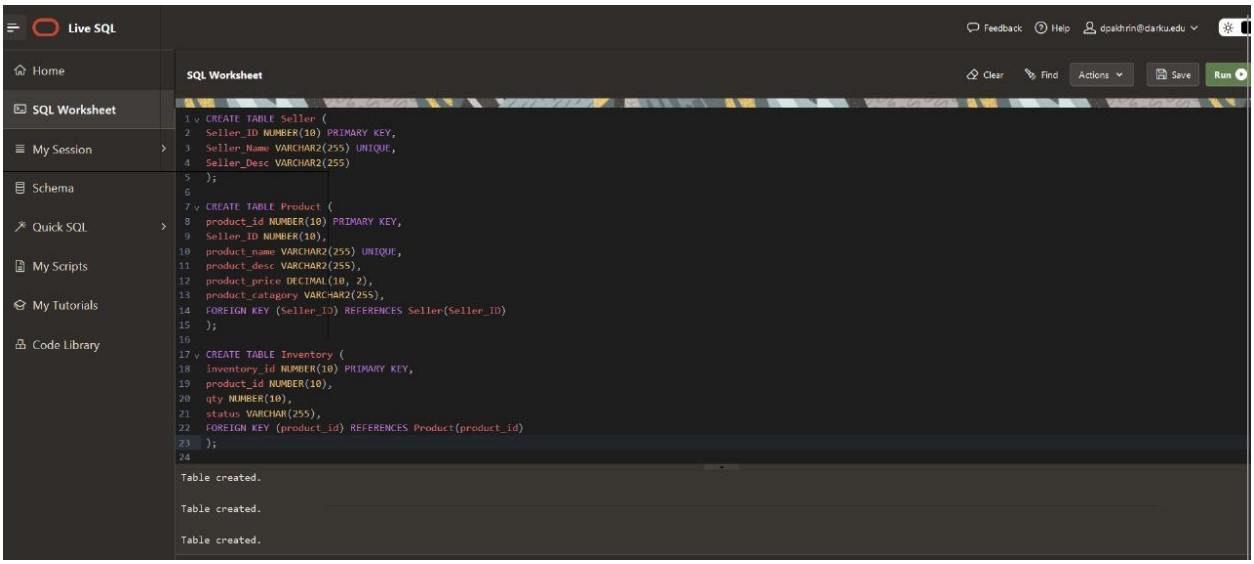
```
CREATE TABLE Seller (
Seller_ID NUMBER(10) PRIMARY KEY,
Seller_Name VARCHAR2(255) UNIQUE,
Seller_Desc VARCHAR2(255)
);

CREATE TABLE Product (
product_id NUMBER(10) PRIMARY KEY,
Seller_ID NUMBER(10),
product_name VARCHAR2(255) UNIQUE,
product_desc VARCHAR2(255),
product_price DECIMAL(10, 2),
product_catagory VARCHAR2(255),
FOREIGN KEY (Seller_ID) REFERENCES Seller(Seller_ID)
);

CREATE TABLE Inventory (
inventory_id NUMBER(10) PRIMARY KEY,
product_id NUMBER(10),
```

qty NUMBER(10),

status VARCHAR(255),

FOREIGN KEY (product_id) REFERENCES Product(product_id)

);



- Insert test Values into the table:

INSERT INTO Seller (Seller_ID, Seller_Name, Seller_Desc)

VALUES (01,'Raj Enterprise', 'test');

INSERT INTO Product (product_id, Seller_ID,
product_name,product_desc,product_price,product_catagory)

VALUES (100,01,'Item 1','This is first product',100.0,'Electronics');

INSERT INTO Inventory (inventory_id, product_id, qty, status)

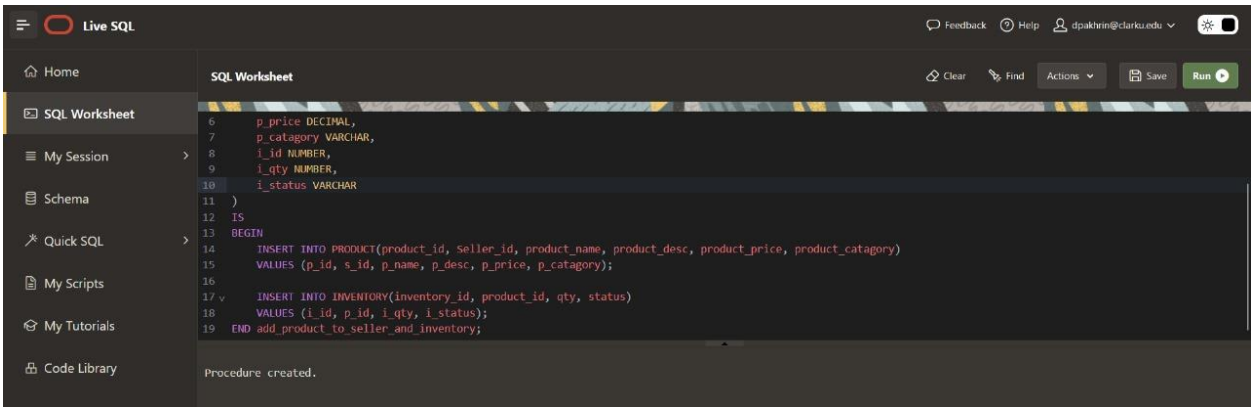
VALUES (111,100,50,'Available');

Creating Stored Procedures and introducing values using these proceduers:

- Creating storage procedures for inserting products into the product table and also inserting into the inventory table

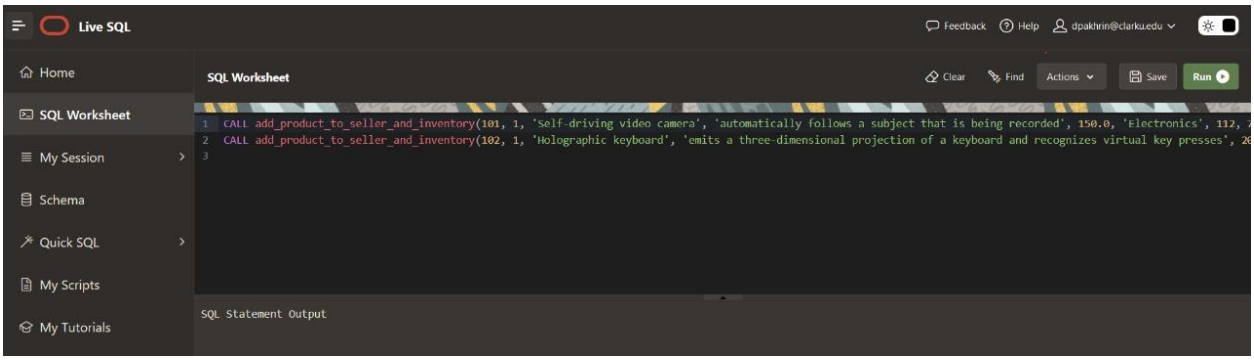
```
CREATE OR REPLACE PROCEDURE add_product_to_seller_and_inventory (
    p_id NUMBER,
    s_id NUMBER,
    p_name VARCHAR,
    p_desc VARCHAR,
    p_price DECIMAL,
    p_catagory VARCHAR,
    i_id NUMBER,
    i_qty NUMBER,
    i_status VARCHAR
)
IS
BEGIN
    INSERT INTO PRODUCT(product_id, Seller_id, product_name, product_desc, product_price, product_catagory)
    VALUES (p_id, s_id, p_name, p_desc, p_price, p_catagory);
```

```
    INSERT INTO INVENTORY(inventory_id, product_id, qty, status)
    VALUES (i_id, p_id, i_qty, i_status);
END add_product_to_seller_and_inventory;
```



Inserting Values using the stored procedure:

- CALL add_product_to_seller_and_inventory(101, 1, 'Self-driving video camera', 'automatically follows a subject that is being recorded', 150.0, 'Electronics', 112, 70, 'Available');
- CALL add_product_to_seller_and_inventory(102, 1, 'Holographic keyboard', 'emits a three-dimensional projection of a keyboard and recognizes virtual key presses', 20.0, 'Computer', 113, 50, 'Available');



SQL Query to find the item in the list of existing products in the "Computers" or "Electronics" categories that cost $30 or less.

- Select * FROM PRODUCT
  where PRODUCT_PRICE < 30;