Formative Assessment 1

Instructions:  
Complete the following tasks in MySQL. Each task is assigned a specific score. Timely submission earns an additional 1 point.   
  
**1.**Create the following tables inside the database ‘global\_store\_db’.(Score :2)  
‘products’ with columns:

* product\_id (INT, auto\_increment, primary key),
* name (VARCHAR(100)),
* price (DECIMAL(10,2)),
* quantity (INT).

‘orders’ with columns: 

* order\_id (INT, auto\_increment, primary key),
* product\_id (INT, foreign key referencing product\_id in the inventory table),
* quantity\_ordered (INT)
* order\_date (DATE).

2.Alter the products table to add a new column named category (VARCHAR(50)) after the price column. (score : 0.5)  
  
3. Rename the products table to inventory.  (score : 0.5)  
  
4. Insert at least 10 records into the inventory table and 5 records into orders table and display the tables. (score : 1)  
  
5. Write queries for the following : (Score :3)  
a) Write a query to display distinct categories from the inventory table.  
b) Select the top 5 products by their prices in descending order from the inventory table.  
c) Display the names of products with a quantity greater than 10 from the inventory table.  
d) Use the SUM() function to calculate the total price of all products in the inventory table.  
e )Group products by their categories and display the count of products in each category.  
f) Write a query to identify products that are currently out of stock (i.e., quantity is zero). Display the product details including the product name and price.  
  
6. Create a view named expensive\_products that displays the details of products with a price above the average price of all products. (score : 1)  
  
7. Write a join query to display the names of products along with the corresponding order quantities from the inventory and orders tables. (score : 1)  
  
Total Score : 10