ASSIGNMENT 11 – SQL2012

1. Create a database named **Ass11**
2. Create the following tables in the database, applying the specified integrity constraints

Table: tbItem		
Column Names	**Data type**	**Description**
ItemCode	VarChar(5)	Item Code – PRIMARY KEY
ItemDesc	VarChar(30)	Item description – NOT NULL
Qoh	Integer	Quantity on hand – NOT NULL
ReOrdLvl	Integer	Re-order level
Price	Integer	Price per unit NOT NULL

Table: tbIssueMaster		
Column Names	**Data type**	**Description**
IssueCode	VarChar(5)	Issue code – PRIMARY KEY
IssueDate	DATETIME	Date of issue – NOT NULL
DeptCode	VarChar(5)	Department Code – NOT NULL

Table: tbIssueDetails		
Column Names	**Data type**	**Description**
IssueCode	VarChar(5)	Issue code – FOREIGN KEY REF. IssueMaster Table
ItemCode	VarChar(5)	Item code – FOREIGN KEY REF. Item Table.
IssueQty	Integer	Quantity issued – NOT NULL
Note: IssueCode + ItemCode is the Primary Key for this table		

3. Insert the following data into the above tables:

Table: tbItem				
ItemCode	**ItemDesc**	**Qoh**	**ReOrdLvl**	**Price**
IT001	Refrigerator	50	400	4000
IT002	Television	100	75	3000
IT003	Washing Machine	250	250	2000
IT004	Microware	200	150	3500

Table:tbIssueMaster		
IssueCode	**IssueDate**	**DeptCode**
IS001	12-Jan-2003	D0001
IS002	18-Feb-2003	D0003
IS003	18-Feb-2003	D0008
IS004	15-Apr-2003	D0002

Table: tbIssueDetails		
IssueCode	**ItemCode**	**IssuedQty**
IS001	IT001	15
IS002	IT003	5
IS002	IT004	2
IS003	IT002	1
IS004	IT004	5

4. Create clustered index **ixDesc** on column **ItemDesc** of table **tbItem,** by descending order.

5. Perform the following queries on the above table
   a. Display the details of Item table
   b. Display a **stock report** showing **item code, description, quantity on hand, re-order level** and **price** giving **user friendly names to the columns**.
   c. Display the details of items having a **price less than or equal to 2000**
   d. Write a query to display an item **issue report** showing **issue code, issue date, department code, item description** and **quantity issued**

6. Create a view **vwQoH** display a list of items where the **quantity on hand** is equal to the **re-order leve**l

7. Create a **store procedure** named **uspIncreaseQOH** to increase the **quantity on hand** of a given **item code**.
   Hint: The procedure accept two parameters: **itemcode** and **amount** to be added to QOH column in Item table

8. Create a **trigger** for **tgIssueDetail**s **table** which will perform the following task when a new record is inserted:
   a. Ensure that the quantity issued is less than or equal to quantity on hand
   b. Update the Qoh column of Item table by subtracting the quantity issued