Comp 1630

Relational Database Design & UML

EXERCISE 6 – SQL Server Management Studio

Complete the following using the Microsoft SQL Server Management Studio tool.

- 1. Launch and connect to SQL Server.
- Create a database called Exercise_6 (Right click).
- 3. Create a user-defined data type called **Id_DataType.** This will be used for the Id columns to ensure consistent data type, length, and null ability.
- 4. Create the following tables (see page 2 for column information):
 - Author
 - Book
 - Branch
 - Inventory
 - Publisher
 - Type
- 5. Add all the Primary Keys and Foreign Keys.
- 6. The default value for the **Book** table's **Paperback** column is 'N'.
- The default value for the **Publisher** table's **Prov** column is 'BC'.
- The default value for the **Book** table's **PubDate** column is today **GETDATE()**.
- 9. Add a check constraint to the **Book** table's **Type_Id** column to ensure the upper case letters A through Z are the only acceptable values for each of the characters in the column.
- 10. Add a check constraint to the **Branch** table's **Id** column for values 1 through 99999.
- 11. Add a check constraint to the **Type** table's **Description** column for the values 'FIC', 'NON', 'REF'.

Submit the PDF image of the ERD created in step 4 to the D2L Ex6 drop box.

Table Layout

Author

Column Name	Data Type	Length		Key	Null
Auth_ld	char	5	User-defined Data Type	PK	No
Auth_LastName	varchar	50			
Auth_FirstName	varchar	50			
Auth_MiddleName	varchar	50			

Book

Column Name	Data Type	Length		Key	Null
Book_ld	char	5	User-defined Data Type	PK	No
Book_Title	varchar	50			
Book_Price	money				
Book_Paperback	char	1			
Book_PubDate	datetime				
Pub_ld	char	5	User-defined Data Type	FK	No
Auth_ld	char	5	User-defined Data Type	FK	No
Type_Id	char	3		FK	No

Branch

Column Name	Data Type	Length		Key	Null
Branch_ld	char	5	User-defined Data Type	PK	No
Branch_Name	varchar	50			
Branch_Location	varchar	50			
Branch_Staff	int				

Inventory

Column Name	Data Type	Length		Key	Null
Book_ld	char	5	User-defined Data Type	PK1 FK	No
Branch_ld	char	5	User-defined Data Type	PK2 FK	No
Inv Level	int				

Publisher

Column Name	Data Type	Length		Key	Null
Pub_ld	char	5	User-defined Data Type	PK	No
Pub_Name	varchar	50			
Pub_Address	varchar	50			
Pub_City	varchar	50			
Pub_Prov	char	2			
Pub Postal	char	6			

Туре

Column Name	Data Type	Length	Key	Null
Type_Id	char	3	PK	No
Type_Description	varchar	50		