**Gateway Technical College**

DATABASES

152-080

Unit 5 Assignment

# Introduction

Please complete the document which will have you go through the Create Statement for creating tables.  The video lectures will demonstrate examples of the syntax using the command line and the GUI interface provided in SSMS.

You will also practice SELECT statement to verify the above statements worked correctly

This lab describes 6 commands you need to create and execute on your local SQL Server. You will also create an ERD to display all tables in Standard view. Please make sure to paste the commands you create and execute and paste them into this word document.

MAKE SURE your commands work before you past them into the document.

Once completed, attach this completed word document to this assignment for grading.   Each command will be worth 10 points.

Use the **Discussion Forum** if you have any questions regarding the how to approach this assignment. You can also email your instructor directly for assistance if you have any questions.

Save your submission as ***lastnameFirstname\_assign5.docx*** and submit it in the unit *Apply* section of the course.

# Instructions

You are to complete the following actions in a new database that you will create named **Video**. The syntax must work. For each question below – paste in print screens of your query window showing the command and the functioning output.

1. Create a new database named **Video**.   
  
**YOUR COMMAND WAS:**

|  |
| --- |
| CREATE DATABASE Video;  USE Video; |

2. Create the tables based on the following table instance charts below which include the tables:

* Member
* Title
* TitleCopy
* Rental
* Reservation

Choose the appropriate data types such as NUMERIC, DATE, or VARCHAR. The NN designation means "Not Null", U means "Unique", and PK means "Primary Key". Make sure to set these on the columns as identified in the table. For this lab only worry about the column name, NN out of Null/Unique, Data Type, and Length information provided in the charts.

A. Table Name: **Member**

**YOUR COMMAND WAS:**

|  |
| --- |
| CREATE TABLE Member  (  MemberID Numeric(10) PRIMARY KEY NOT NULL,  LastName VARCHAR(25) NOT NULL,  FirstName VARCHAR(25),  Address VARCHAR(100),  City VARCHAR(30),  Phone VARCHAR(15),  JoinDate DATE NOT NULL DEFAULT GETDATE()  ); |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Colum Name** | MemberID | LastName | FirstName | Address | City | Phone | JoinDate |
| **Key Type** | PK |  |  |  |  |  |  |
| **Null/Unique** | NN | NN |  |  |  |  | NN |
| **Check** |  |  |  |  |  |  |  |
| **Default Value** |  |  |  |  |  |  |  |
| **FK Ref Table** |  |  |  |  |  |  |  |
| **FK Ref Column** |  |  |  |  |  |  |  |
| **Data Type** | NUMERIC | VARCHAR | VARCHAR | VARCHAR | VARCHAR | VARCHAR | DATE |
| **Length** | 10 | 25 | 25 | 100 | 30 | 15 |  |

B. Table Name: **Title**

**YOUR COMMAND WAS:**

|  |
| --- |
| CREATE TABLE Title  (  TitleID Numeric(10) Primary Key Not Null,  Title VarChar(60) Not Null,  Description VarChar(400) Not Null,  Rating VarChar(4),  Category VarChar(20),  ReleaseDate Date  ); |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Colum Name** | TitleID | Title | Description | Rating | Category | ReleaseDate |
| **Key Type** | PK |  |  |  |  |  |
| **Null/Unique** | NN | NN | NN |  |  |  |
| **Check** |  |  |  |  |  |  |
| **Default Value** |  |  |  |  |  |  |
| **FK Ref Table** |  |  |  |  |  |  |
| **FK Ref Column** |  |  |  |  |  |  |
| **Data Type** | NUMERIC | VARCHAR | VARCHAR | VARCHAR | VARCHAR | DATE |
| **Length** | 10 | 60 | 400 | 4 | 20 |  |

C. Table Name: **TitleCopy**

**YOUR COMMAND WAS:**

|  |
| --- |
| Create Table TitleCopy  (  CopyID Numeric(10) Primary Key Not Null,  TitleID Numeric(10) Unique Not Null,  Status VarChar(15) Not Null  ); |

|  |  |  |  |
| --- | --- | --- | --- |
| **Colum Name** | CopyID | TitleID | Status |
| **Key Type** | PK |  |  |
| **Null/Unique** | NN | NN, U | NN |
| **Check** |  |  |  |
| **Default Value** |  |  |  |
| **FK Ref Table** |  |  |  |
| **FK Ref Column** |  |  |  |
| **Data Type** | NUMERIC | NUMERIC | VARCHAR |
| **Length** | 10 | 10 | 15 |

D. Table Name: **Rental**

**YOUR COMMAND WAS:**

|  |
| --- |
| Create Table TitleCopy  (  CopyID Numeric(10) Primary Key Not Null,  TitleID Numeric(10) Unique Not Null,  Status VarChar(15) Not Null  ); |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Colum Name** | BookDate | MemberID | CopyID | ActRetDate | ExpRetDate | TitleID |
| **Key Type** | PK |  |  |  |  |  |
| **Null/Unique** | NN | NN | NN |  |  | NN |
| **Check** |  |  |  |  |  |  |
| **Default Value** |  |  |  |  |  |  |
| **FK Ref Table** |  |  |  |  |  |  |
| **FK Ref Column** |  |  |  |  |  |  |
| **Data Type** | DATE | NUMERIC | NUMERIC | DATE | DATE | NUMERIC |
| **Length** |  | 10 | 10 |  |  | 10 |

E. Table Name: **Reservation**

**YOUR COMMAND WAS:**

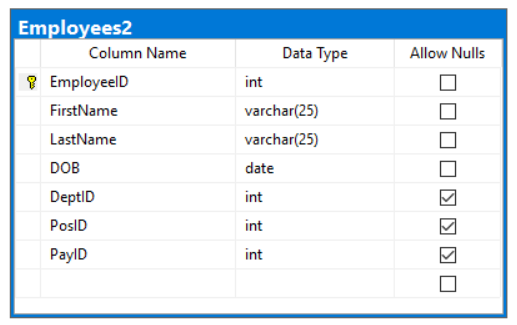
|  |
| --- |
| Create Table Reservation  (  ResDate Date Primary Key Not Null,  MemberID Numeric Unique Not Null,  TitleID Numeric(10) Not Null  ); |

|  |  |  |  |
| --- | --- | --- | --- |
| **Colum Name** | ResDate | MemberID | TitleID |
| **Key Type** | PK |  |  |
| **Null/Unique** | NN | NN, U | NN |
| **Check** |  |  |  |
| **Default Value** |  |  |  |
| **FK Ref Table** |  |  |  |
| **FK Ref Column** |  |  |  |
| **Data Type** | DATE | NUMERIC | NUMERIC |
| **Length** |  | 10 | 10 |

3. Verify that all of the tables were created correctly with the appropriate fields, types and lengths.

**YOUR VERFICATIONS:**

|  |
| --- |
| EXEC sp\_help Member  EXEC sp\_help Title  EXEC sp\_help TitleCopy  EXEC sp\_help Rental  EXEC sp\_help Reservation |

*Hint: You can do this in one of two ways.*   
  
**Option A**: Create a ERD showing all tables, then select each table and display as Standard Table. Below is a sample screenshot verifying all fields, types, and lengths.  


**Option B**: Execute the following command line:  
  
EXEC sp\_help *<table\_object>*  
