**152-080 Databases**

# **Unit 6: Creating databases and tables**

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. Save your submission as ***U5\_lastnamefirstname.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:**



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:**

Table

Description automatically generated

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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:**

Graphical user interface, text, application

Description automatically generated

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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:**

Text

Description automatically generated

|  |  |  |  |
| --- | --- | --- | --- |
| **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**

Graphical user interface

Description automatically generated with low confidence

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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:**

Graphical user interface, text, application

Description automatically generated

|  |  |  |  |
| --- | --- | --- | --- |
| **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:**

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

A screenshot of a computer

Description automatically generated

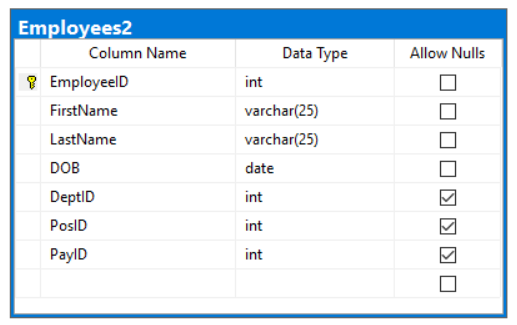
Graphical user interface, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

*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>*  
