Overview

The video game industry has enjoyed sustained growth for more than three decades, and recently surpassed the movie industry to become the world's most profitable entertainment industry. While myriad resources are dedicated to the history of the movie industry, comparatively few resources are available that chronicle the history of the video game industry. To that end, a group of avid video game fans has decided to start a web-based, non-profit organization that they hope to build into the world's most comprehensive and definitive archive of information relating to the history of video games.

Details

The creators of this historical archive understand that data will be their organization's most important asset, and have thus begun their efforts by collecting data on a number of different video games. These data have been assembled into a document that has been made available to you on the course website. Using this document, your task is to design and implement a normalized database using logical relations that will support the initial data needs of the proposed historical archive.

- Each relation in your database design must be normalized to 3rd normal form (3NF) or above. Please define all of your relations in a Microsoft Word document using the parenthetical method. Here's an example of this method for a "Customer" relation. Please note that attributes that comprise the primary key should be underlined, while foreign key attributes should be *italicized*. If an attribute is serving as both a primary key and a foreign key, then it should be *underlined and italicized*.

    Customer(customerId, firstName, lastName, emailAddress, *companyId*)

- You will notice that a few games have multiple modes or multiple creators. You may want to consider reading about many-to-many relationships and associative entities on Wikipedia to gain some ideas about how to handle this issue:
    - https://en.wikipedia.org/wiki/Many-to-many_(data_model)
    - https://en.wikipedia.org/wiki/Associative_entity
- You must fully implement your database tables in Microsoft SQL Server. For this assignment, you do not need to worry about selecting proper data types for your attributes when creating your SQL Server database tables. When you are finished implementing your database tables, create a database diagram that includes all of the tables in your solution. To create a database diagram in SQL Server, right-click on the "Database Diagrams" item under your database in the Object Explorer, and then select "New Database Diagram". In the "Add Table" dialog box that appears, select all of the tables in your solution, and then click the "Add" button.

- When your diagram is complete, select "Copy Diagram to Clipboard" from the SSMS "Edit" menu, and then paste your diagram into the Word document that contains your relations.

Deliverables

To ensure that you receive credit for this assignment, please complete the following tasks:

1. Complete the *Group Assignment Participation Form* for this assignment (available on the course website). **Each group member who contributed to the assignment should complete this task.**

2. Submit the Word document that shows your group's logical relations and database diagram using the *Assignment 02* link on the course website. **Each group should submit just one document.**