

## Overview

*Silicon Valley* is a comedic television series that premiered in the United States in April of 2014. Critical response to *Silicon Valley* has been overwhelmingly positive since its inception, with the show receiving five Emmy nominations in its first season, six Emmy nominations in its second season, and 11 Emmy nominations for its third season. To serve their rapidly growing fan base, the creators of the series have decided to develop a website that will provide detailed information about the show to Internet users. Your task is to design part of the database that will enable this website to become a reality.

## Details

The creators of *Silicon Valley* have provided you with the following details regarding the structure of the show:

- The show is comprised of episodes. Each episode has a title, a plot synopsis, a unique episode number, a production date, and an original broadcast date. Each episode is written by one or more writers, stars several actors, and is produced by one or more producers.
- Writers have a name and an email address, while producers have a name and an office number.
- Several characters appear in each episode. Each character is classified as *primary*, *secondary*, or *tertiary*. Primary characters appear in most of the episodes, secondary characters appear in at least two episodes, and tertiary characters appear in only one episode. Additional character classifications may be added in the future.
  - NOTE: The database itself does not need to automatically assign character categories, but it should be able to keep track of which characters belong to each category.
- Each character has a name and a description, and is portrayed by an actor.
- Actors have a name and an agent phone number. The creators of the series would like actors and characters to be tracked separately in the database.
- For purposes of simplicity, you may assume that each actor plays just one character, and that each character is played by just one actor.

## Tasks

Your tasks for this assignment are to:

1. Create a complete entity-relationship data model using Microsoft Visio that depicts all of the entities, attributes, relationships, and cardinalities that are necessary to support all of the considerations noted above. Your solution should be fully normalized (in Boyce-Codd normal form [BCNF] or above). Please use crow's foot symbols to depict cardinalities.
2. Keep a record of any assumptions that your group made in arriving at your final data model. You are not required to report any assumptions, but if you do I will consider them when evaluating your entity-relationship diagram.

## 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. Assemble your Visio ER diagram and assumptions (if any) from Tasks 1 and 2 above into a single Word document. Note that after selecting your ER diagram in Visio and copying it to the clipboard, you can paste the diagram into Word as an image by selecting *Paste Special >> Picture (Enhanced Metafile)*. After creating your Word document, submit the file using the appropriate link on the course website. **Each group should submit just one file.**