Exercises

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Querying Data

Download **Section 6 - Exercise Files.zip** attached to this lecture and open the solution in Visual Studio. This is the model for Vidzy video store built using the code-first workflow. Whether you build a model using database-first or code-first workflow, querying data is exactly the same. So you can use this solution to exercise querying data.

Once you open the solution, go to **Tools** > **Package Manager** > **Package Manager Console** and run **Update-Database**. This will generate a new database called **Vidzy_Queries** populated with some data.

Write queries using LINQ extension methods to display:

- **Action movies sorted by name**

  Output:

  Die Hard
  Terminator 2: Judgment Day
  The Dark Knight

- **Gold drama movies sorted by release date (newest first)**

  Output:

  The Shawshank Redemption
  Schindlre's List

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Exercises

- **All movies projected into an anonymous type with two properties: MovieName and Genre**

  Output:

  The Godfather
  The Shawshank Redemption
  Schindlre's List
  The Hangover
  Anchorman
  Die Hard
  The Dark Knight
  Terminator 2: Judgment Day

- **All movies grouped by their classification:** Project the group into a new anonymous type with two properties: Classification (string), Movies (IEnumerable<Video>). For each group, display the classification and list of videos in that class sorted alphabetically.

  Output:

  Classification: Silver
     Anchorman

  Classification: Gold
     Die Hard
     Schindlre's List
     The Dark Knight
     The Hangover
     The Shawshank Redemption

  Classification: Platinum
     Terminator 2: Judgment Day
     The Godfather

  Hint: after applying GroupBy, you need to use Select to do the projection. Each group has a property called Key that you can use to get the

Classification. The group variable can be used to get all videos in that group.

- **List of classifications sorted alphabetically and count of videos in them.**

  Output:

  Gold (5)
  Platinum (2)
  Silver (1)

- **List of genres and number of videos they include, sorted by the number of videos.** Genres with the highest number of videos come first.

  Output:

  Action (3)
  Drama (3)
  Comedy (2)
  Horror (0)
  Thriller (0)
  Family (0)
  Romance (0)