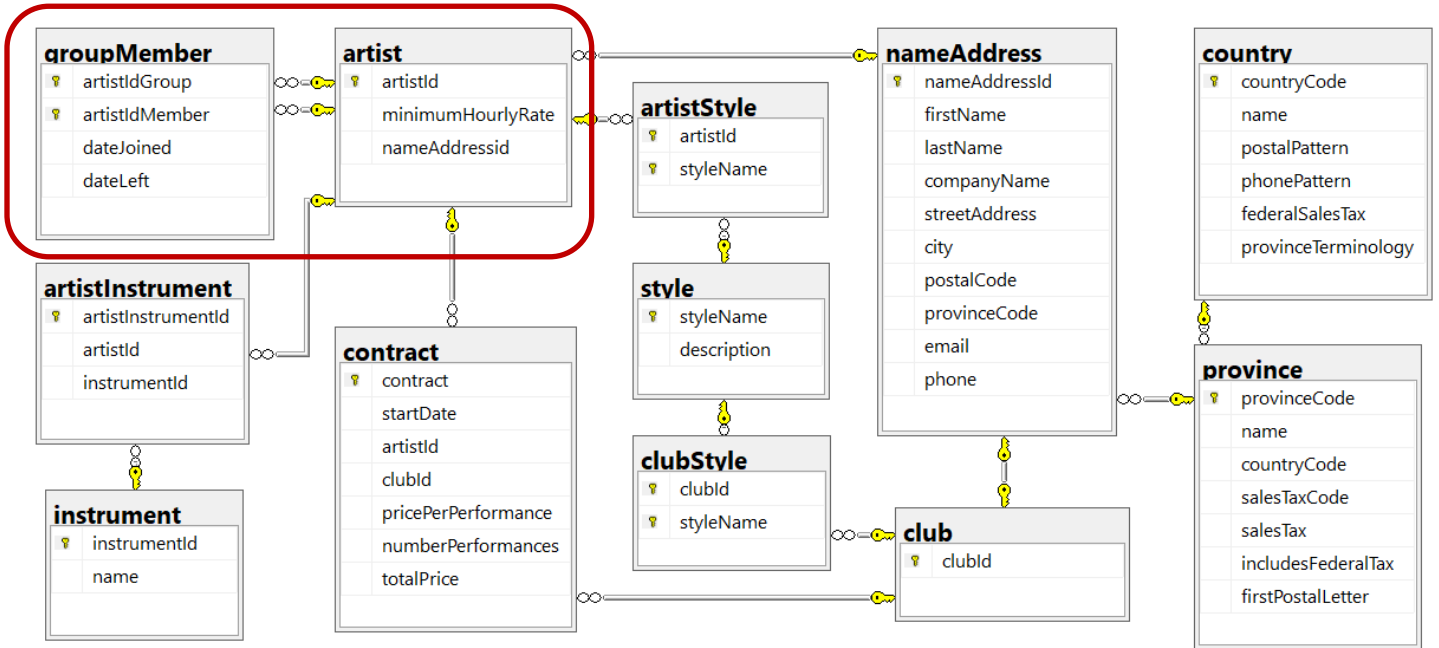# Ms Web Tech Assignment 3 – Filtering & Dropdowns

In this assignment, you will manage the *groupMember* table. An artist could be an individual or a group, but the contract doesn't need to know the difference. You can tell if an artist is a group by checking if its *artistId* appears as the *artistIdGroup* on any groupMember record.

Project Setup

1. You can continue using your **XXClubs** project from assignment 2.
2. Add a hyperlink to the layout's menu, directed to your XXArtistController's Index action.

XXArtistController

1. Generate a controller for the *artist* table called **XXArtistController**, with full CRUD support and views.
2. In the index view:
   a. Show a full name for each artist:
      i. If the artist has both a first and last name, show them together as "LastName, FirstName".
      ii. Otherwise, if they have just a first or last name, show that.
      iii. If the artist has no first or last name, but does have a company name, it's probably a club, and the Artist edits shouldn't have let it get here. Not your problem … for this assignment.
   b. Sort the listing by full name.
   c. For each artist, add a hyperlink that passes the *artistId* to the *XXGroupMemberController's* index action. Consider passing the artist's name as well… just say'n.

XXGroupMemberController

1. Generate a controller for the *groupMember* table, called **XXGroupMemberController**, with full CRUD support and views.
2. In the *Index* action (please use a session variable or a cookie … not both):
   a. If the *artistId* is in the URL or a QueryString variable, save it to a cookie or session variable.
   b. If no *artistId* was passed in the URL or QueryString, look for a cookie or session variable with it, and use that.

      i. If there's no *artistId* in either a cookie or session variable, return to the ***XXArtistController*** with a message asking them to select an artist.

   c. If the *artistId* is in the *ArtistIdGroup* field of any groupMember record:

      i. Filter the groupMember records to ones that have the given artistId in the field *artistIdGroup*.

      ii. Show the member's full name, derived like in the artist controller.

   d. Else, if the *artistId* is not a group, but is in the *ArtistIdMember* field on any groupMember records:

      i. Create a <u>new view</u> called ***GroupsForArtist***, listing all groups the artist belonged to.

      ii. Show each group's name along with the member's joined & left dates

      iii. Add a TempData message explaining the artist is an individual, not a group, so here's their historic group memberships.

      iv. Show the artist's full name in the page heading and browser title … something like "Groups with *full name*"

      v. Put a hyperlink on each line sending the *ArtistIdGroup* back to the groupMember controller's Index action so the user can edit the individual's group membership.

      vi. This view does not need any other hyperlinks … except maybe one back to artist controller's Index action?

   e. Else (the *artistId* is neither a group nor a member of a group):

      i. Redirect the user to the GroupMemberController's Create action and display a message saying the artist is neither a group nor a group member, but they can become a group.

   f. Order the listing by *dateLeft* first (such that nulls sort on top), then by *dateJoined* (oldest to newest)

3. For the Create and Edit views:

   a. Do not show *artistIdGroup* as an input field, but remember it's still needed to save a new/updated record.

   b. Filter the *artistIdMember* drop-down:

      i. Only show artists that are not themselves groups

      ii. Do not show artists that are a current member of any group

      iii. Display the artist's fullName (as defined in ArtistController) and return their artistId

   c. On Create, default *dateJoined* to the current date and *dateLeft* to null. I hate the HTML5 date/time picker … we'll fix it after reading week.

4. In **ALL** views for this controller except GroupsForArtist:

   a. Modify the browser title and page heading to indicate its purpose and the name of the group, like:

      i. Members of The Yurts,

      ii. Add member to The Yurts

      iii. Delete member from The Yurts

   b. In the data area, display the member's full name, not their artistId

5. **Bonus:** Create model metadata class and practice using display annotations.
   For example ArtistId should be Artist Id.

Hand In

1. Zip and upload your project folder to the [D2L upload folder](#) (course tools → assignments) for this assignment. Only the last upload will be retained.