

Comparisons Lab Answers

Lab 1: SequenceEqual() Method (Query Syntax)

```
value = (from row in songs1
         select row)
        .SequenceEqual(from row in songs2 select row);
```

Lab 1: SequenceEqual() Method (Method Syntax)

```
value = songs1.SequenceEqual(songs2);
```

Lab 2: Sequence Equal using Comparer (Query Syntax)

```
value = (from row in songs1
         select row)
        .SequenceEqual(from row in songs2 select row, sc);
```

Lab 2: Sequence Equal using Comparer (Method Syntax)

```
value = songs1.SequenceEqual(songs2, sc);
```

Lab 3: Except() Method (Query Syntax)

```
list = (from row in genres
        select row.GenreId)
        .Except(from row in songs
                select row.GenreId.HasValue ? row.GenreId.Value : -1)
        .ToList();
```

Lab 3: Except() Method (Method Syntax)

```
list = genres.Select(row => row.GenreId)
             .Except(songs.Select(row => row.GenreId.HasValue ?
row.GenreId.Value : -1)).ToList();
```

Lab 4: Except using Comparer (Query Syntax)

```
list = (from row in songs1
        select row)
        .Except(from row in songs2
                select row, sc).ToList();
```

Lab 4: Except using Comparer (Method Syntax)

```
list = songs1.Except(songs2, sc).ToList();
```

Lab 5: ExceptBy() Method (Query Syntax)

```
list = (from row in songs1
        select row)
        .ExceptBy<Song, int>(from row in songs2
                              select row.SongId,
                              row => row.SongId).ToList();
```

Lab 5: ExceptBy() Method (Method Syntax)

```
list = songs1
        .ExceptBy<Song, int>(songs2.Select(row => row.SongId),
                             row => row.SongId).ToList();
```

Lab 6: Intersect() Method (Query Syntax)

```
list = (from row in songs1
        select row.SongId)
        .Intersect(from row in songs2
                    select row.SongId).ToList();
```

Lab 6: Intersect() Method (Method Syntax)

```
list = songs1.Select(row => row.SongId)
           .Intersect(songs2.Select(row => row.SongId)).ToList();
```

Lab 7: Intersect using Comparer Method (Query Syntax)

```
list = (from row in songs1
        select row)
        .Intersect(from row in songs2
                    select row, sc).ToList();
```

Lab 7: Intersect using Comparer (Method Syntax)

```
list = songs1.Intersect(songs2, sc).ToList();
```

Lab 8: IntersectBy() Method (Query Syntax)

```
list = (from row in songs1
        select row)
        .IntersectBy<Song, int>(from row in songs2
                                select row.SongId,
                                row => row.SongId).ToList();
```

Lab 8: IntersectBy() Method (Method Syntax)

```
list = songs1
    .IntersectBy<Song, int>(songs2.Select(row => row.SongId),
        row => row.SongId).ToList();
```