

Order By and Where Lab Answers

Lab 1: Order Songs by Name (Query Syntax)

```
list = (from row in songs
        orderby row.SongName
        select row).ToList();
```

Lab 1: Order Songs by Name (Method Syntax)

```
list = songs
        .OrderBy(row => row.SongName)
        .ToList();
```

Lab 2: Order Songs by Artist, Name (Query Syntax)

```
list = (from row in songs
        orderby row.Artist, row.SongName
        select row.SongName).ToList();
```

Lab 2: Order Songs by Artist, Name (Method Syntax)

```
list = songs
    .OrderBy(row => row.Artist)
    .ThenBy(row => row.SongName)
    .ToList();
```

Lab 3: Order Songs by Artist Descending, Name Ascending (Query Syntax)

```
list = (from row in songs
        orderby row.Artist descending, row.SongName
        select row).ToList();
```

Lab 3: Order Songs by Artist Descending, Name Ascending (Method Syntax)

```
list = songs
    .OrderByDescending(row => row.Artist)
    .ThenBy(row => row.SongName)
    .ToList();
```

Lab 4: All Songs in Year 2005 (Query Syntax)

```
list = (from row in songs
        where row.Year == 2005
        orderby row.SongName
        select row).ToList();
```

Lab 4: All Songs in Year 2005 (Method Syntax)

```
list = songs
        .Where(row => row.Year == 2005)
        .OrderBy(row => row.SongName)
        .ToList();
```

Lab 5: All Songs in Year 2005 and Plays > 20 (Query Syntax)

```
list = (from row in songs
        where row.Year == 2005 && row.Plays > 20
        orderby row.SongName
        select row).ToList();
```

Lab 5: All Songs in Year 2005 and Plays > 20 (Method Syntax)

```
list = songs
        .Where(row => row.Year == 2005 && row.Plays > 20)
        .OrderBy(row => row.SongName)
        .ToList();
```