Aggregation Lab Answers

Lab 1: Count() Method (Query Syntax)

```
value = (from row in songs select row)
        .Count(row => row.GenreId == 35);
```

Lab 1: Count() Method (Method Syntax)

```
value = songs
        .Count(row => row.GenreId == 35);
```

Lab 2: Sum() Method (Query Syntax)

```
value = (from row in songs
          where row.GenreId == 35
          select row)
         .Sum(row => row.Plays);
```

Alternate syntax

```
value = (from row in songs
          where row.GenreId == 35
          select row.Plays).Sum();
```

Lab 2: Sum() Method (Method Syntax)

```
value = songs
        .Where(row => row.GenreId == 35)
        .Sum(row => row.Plays);
```

Alternate syntax

```
value = songs
        .Where(row => row.GenreId == 35)
        .Select(row => row.Plays)
        .Sum();
```

Lab 3: Average() Method (Query Syntax)

```
value = (from row in songs
         where row.GenreId == 35
         select row)
        .Average(row => row.Plays);
```

Alternate syntax

```
value = (from row in songs
         where row.GenreId == 35
         select row.Plays).Average();
```

Lab 3: Average() Method (Method Syntax)

```
value = songs
        .Where(row => row.GenreId == 35)
        .Average(row => row.Plays);
```

Alternate syntax

```
value = songs
        .Where(row => row.GenreId == 35)
        .Select(row => row.Plays)
        .Average();
```

Lab 4: Min() Method (Query Syntax)

```
value = (from row in songs
          select row)
        .Min(row => row.Rating);
```

Alternate syntax

```
value = (from row in songs
          select row.Rating).Min();
```

Lab 4: Min() Method (Method Syntax)

```
value = songs
        .Min(row => row.Rating);
```

Alternate syntax

```
value = songs
        .Select(row => row.Rating)
        .Min();
```

Lab 5: MinBy() Method (Query Syntax)

```
value = (from row in songs
          select row)
        .MinBy(row => row.Rating);
```

Lab 5: MinBy() Method (Method Syntax)

```
value = songs
        .MinBy(row => row.Rating);
```

Lab 6: Aggregate() Method (Query Syntax)

```
value = (from row in songs
         orderby row.DateAdded
         select row)
        .Take(5)
        .Aggregate("", (names, row) =>
          names + row.SongName + Environment.NewLine);
```

Lab 6: Aggregate() Method (Method Syntax)

```
value = songs
        .OrderBy(row => row.DateAdded)
        .Take(5)
        .Aggregate("", (names, row) =>
            names + row.SongName + Environment.NewLine);
```