

# Grouping Lab Answers

## Lab 1: GroupBy() Method (Query Syntax)

```
list = (from row in songs
        group row by row.GenreId).ToList();
```

## Lab 1: GroupBy() Method (Query Syntax)

```
value = songs.GroupBy(row => row.GenreId).ToList();
```

## Lab 2: GroupBy() Method Using Where (Query Syntax)

```
list = (from row in songs
        group row by row.GenreId into grp
        where grp.Count() >= 10
        orderby grp.Count()
        select grp).ToList();
```

## Lab 2: GroupBy() Method Using Where (Method Syntax)

```
list = songs.GroupBy(row => row.GenreId)
            .Where(grp => grp.Count() >= 10)
            .OrderBy(grp => grp.Count()).ToList();
```

## Lab 3: Group and Aggregate (Query Syntax)

```
list = (from row in songs
        group row by row.GenreId into grp
        select new SongStats {
            GenreId = grp.Key,
            TotalSongs = grp.Count(),
            MinRating = grp.Min(row => row.Rating),
            MaxRating = grp.Max(row => row.Rating),
            AverageRating = grp.Average(row => row.Rating)
        }).ToList();
```

## Lab 3: Group and Aggregate (Method Syntax)

```
list = songs.GroupBy(row => row.GenreId)
            .Select(grp => new SongStats {
                GenreId = grp.Key,
                TotalSongs = grp.Count(),
                MinRating = grp.Min(row => row.Rating),
                MaxRating = grp.Max(row => row.Rating),
                AverageRating = grp.Average(row => row.Rating)
            }).ToList();
```