Joining, Grouping, & Aggregating



Scott Allen

OdeToCode.com - @OdeToCode



Filtering

Method	Description
Where	Filter values by a predicate function (where)
OfType	Filter values based on their ability to be coerced to a type (can use on IEnumerable)



Set Operations

Method	Description
Distinct	Remove duplicate values
Except	Returns the differences
Intersect	Returns the intersection
Union	Returns unique elements



Summary



```
var query2 =
cars.GroupBy(c => c.Manufacturer)
    .Select(g =>
        var results = g.Aggregate(new CarStatistics(),
                            (acc, c) => acc.Accumulate(c),
                            acc => acc.Compute());
        return new
            Name = g.Key,
            Avg = results.Average,
            Min = results.Min,
            Max = results.Max
        };
    })
    .OrderByDescending(r => r.Max);
```