

第26期-数据查询

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Entity Framework Core 使用语言集成查询 LINQ 来查询数据库中的数据，LINQ 查询表达式会传递给数据库提供程序，进而转换为特定于数据库的查询语言 SQL 语句，通过下面的文档学习如何使用 LINQ 从数据库查询实体。

[Enumerable Class](#)

[Queryable Class](#)

[理解 IEnumerable 和 IQueryable](#)

[IQueryable 与 IEnumerable 区别](#)

[Standard Query Operators Overview](#)

[101 LINQ Samples](#) ([101 LINQ Examples in .NET Core](#)、[just-linq-it](#))

Family	Query operators
Filtering	OfType, Where
Projection	Select, SelectMany
Partitioning	Skip, SkipWhile, Take, TakeWhile
Join	GroupJoin, Join
Concatenation	Concat
Ordering	OrderBy, OrderByDescending, Reverse, ThenBy, ThenByDescending
Grouping	GroupBy, ToLookup
Set	Distinct, Except, Intersect, Union
Conversion	AsEnumerable, AsQueryable, Cast, ToArray, ToDictionary, ToList
Equality	SequenceEqual
Element	ElementAt, ElementAtOrDefault, First, FirstOrDefault, Last, LastOrDefault, Single, SingleOrDefault
Generation	DefaultIfEmpty, Empty, Range, Repeat
Quantifiers	All, Any, Contains
Aggregation	Aggregate, Average, Count, LongCount, Max, Min, Sum

LINQ有两种写法：Query Syntax and Method Syntax

```
var numbers = Enumerable.Range(1, 100); //1,2,...,100
```

```
//query syntax:  
var query = from n in numbers where n % 3 == 0 select n * 2;  
  
//method syntax:  
var method = numbers.Where(n => n % 3 == 0).Select(n => n * 2);
```

相关工具: LINQPad

[Parallel LINQ \(PLINQ\)](#)