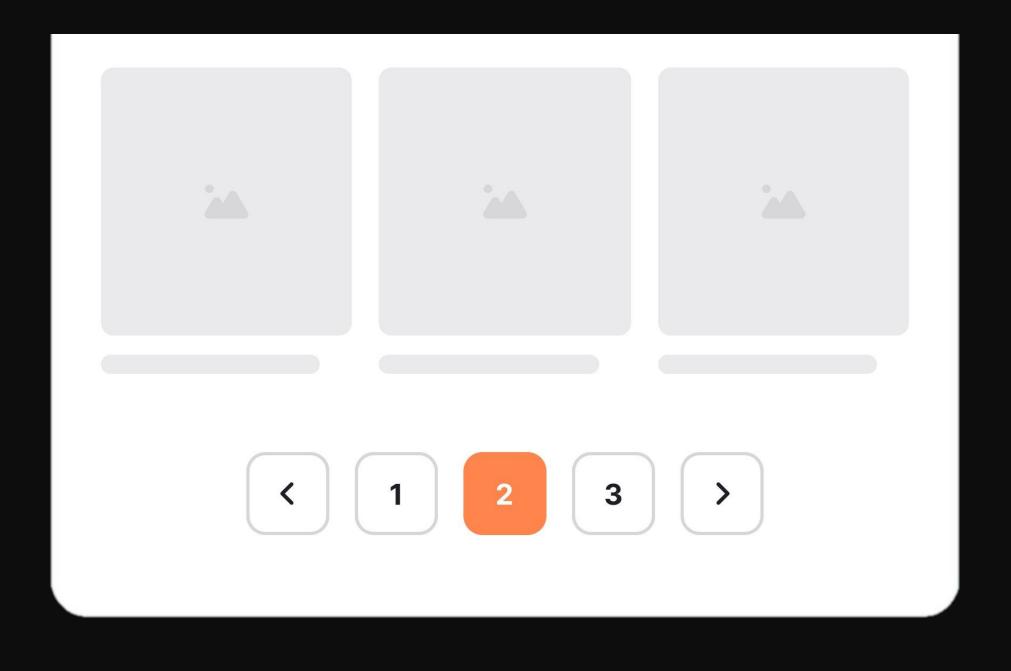
Entity Framework Core #tips

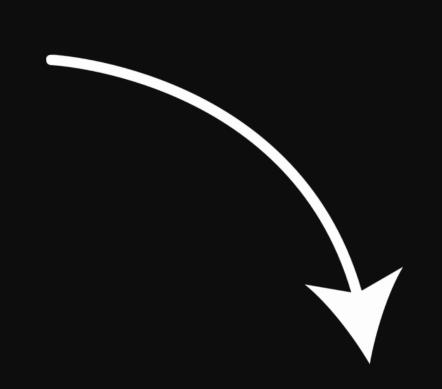
Pagination LINQ Extension





It refers to retrieving results in pages, this is typically done for large resultsets.



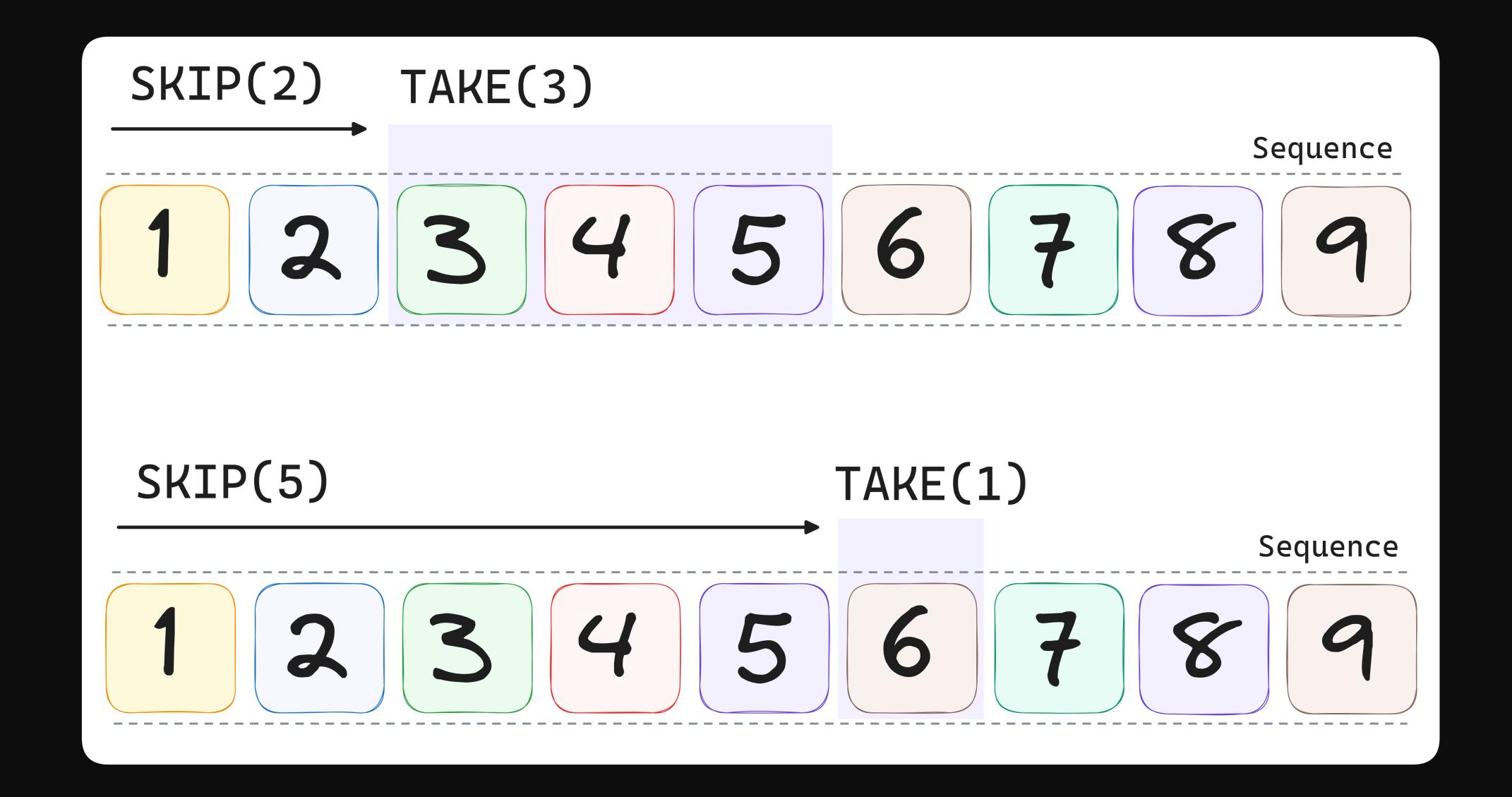


Where a user interface is shown that allows the user to navigate to the next or previous page of the results.





In LINQ you can use Take and Skip methods for implement pagination known Paging.



Paging

```
C# Extension
static IQueryable<T> Page<T>(this IQueryable<T> data, int pageIndex, int pageSize)
           => data.Skip((pageIndex - 1) * pageSize)
                 .Take(pageSize);
          C# Usage
var articlesOnPage = dbContext.Articles
                                    .Page(pageIndex: 10, pageSize: 25)
 // takes articles from 226 to 250
```

First Page

```
C# Extension
static IQueryable<T> FirstPage<T>(this IQueryable<T> data, int pageSize)
          => data.Take(pageSize);
          C# Usage
 var articlesOnPage = dbContext.Articles
                                     .FirstPage(pageSize: 25)
 // takes articles from 1 to 25
```

Last Page

```
C# Extension
static IQueryable<T> LastPage<T>(this IQueryable<T> data, int pageSize)
     => data.Skip(((data.Count() / pageSize) - 1) * pageSize)
            .Take(pageSize)
          C# Usage
var articlesOnPage = dbContext.Articles
                                    .LastPage(pageSize: 25)
 // takes articles from 476 to 500 if you have 500 items
```

Page Count

```
static IQueryable<T> CountOfPages<T>(this IQueryable<T> data, int pageSize)
{
  var total = data.Count();
  return (total / pageSize) + ((total % pageSize) > 0 ? 1 : 0);
}
```

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Before paging you must be applying your filters and ordering by.

```
var articlesOnPage = dbContext.Articles
    .Where(art => art.AuthorId == autId)
    .OrderBy(art => art.Date)
    .ThenBy(art => art.Title)
    .Page(pageIndex: 10, pageSize: 25);
```

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