

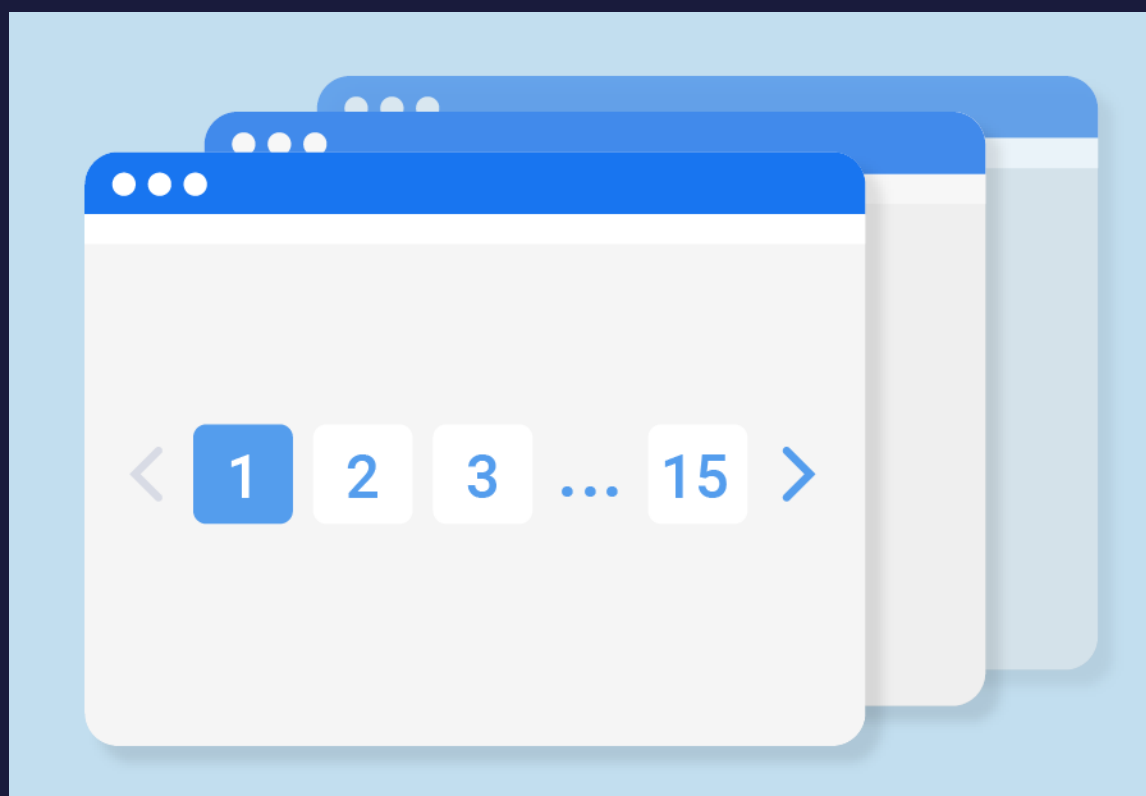
Entity Framework



Pagination LINQ Extension

Pagination

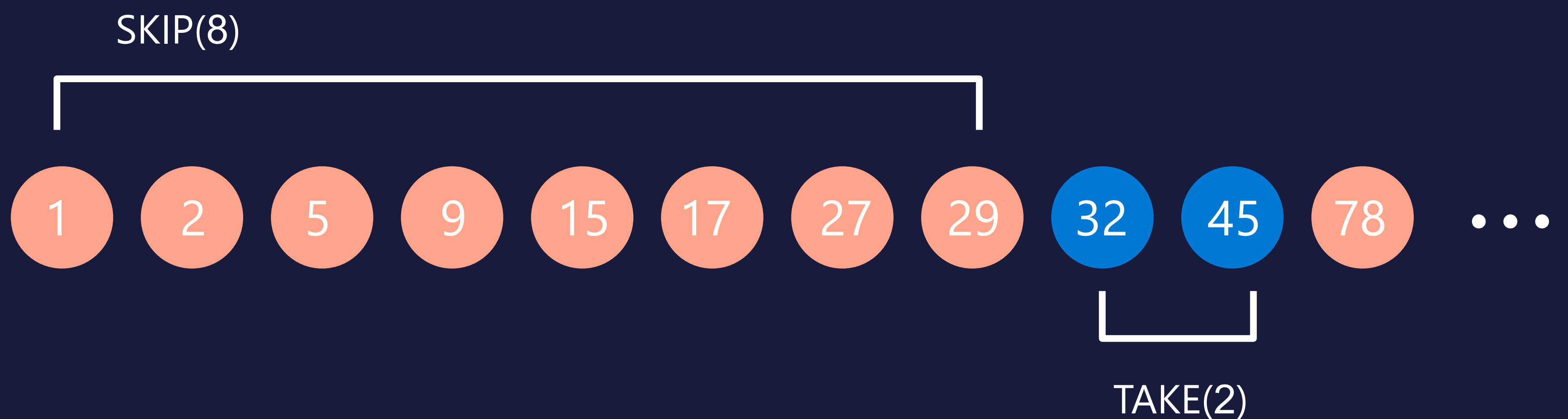
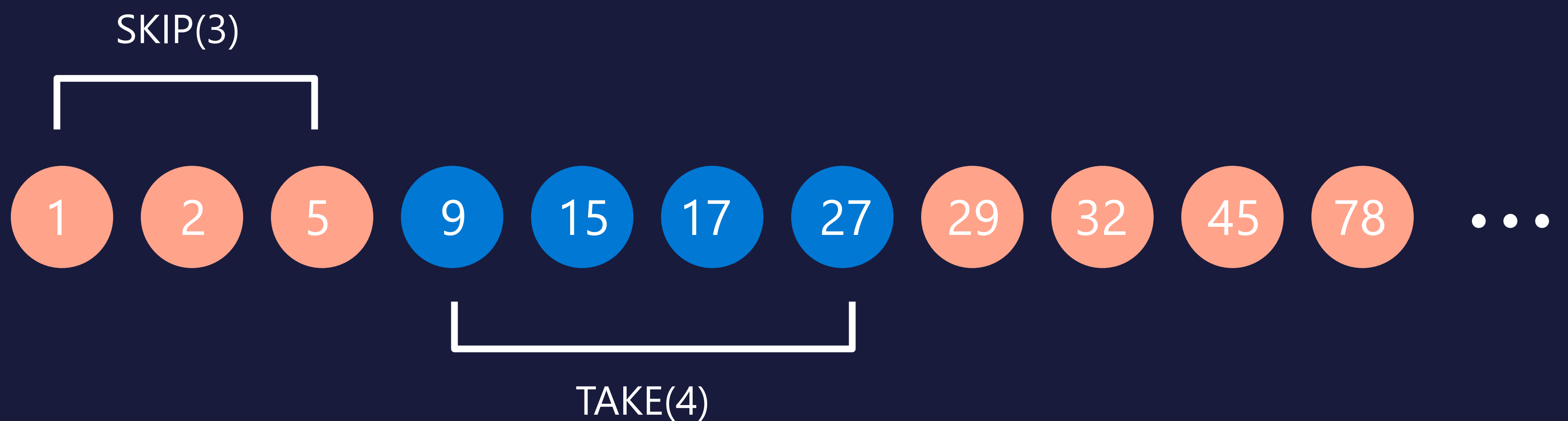
It refers to retrieving results in pages, this is typically done for **large resultsets**.



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 as **Paging**.



Paging

Method

0 references | 0 changes | 0 authors, 0 changes

```
public static IQueryable<T> Page<T>(this IQueryable<T> data, int pageIndex, int pageSize)
    => data.Skip((pageIndex - 1) * pageSize)
           .Take(pageSize);
```

Usage

```
var articlesOnPage = dbContext.Articles
    .Page(pageIndex: 10, pageSize: 25);

// takes articles from 226 to 250
```

First-page

Method

0 references | 0 changes | 0 authors, 0 changes

```
public static IQueryable<T> FirstPage<T>(this IQueryable<T> data, int pageSize)
    => data.Take(pageSize);
```

Usage

```
var articlesOnFirstPage = dbContext.Articles
    .FirstPage(pageSize: 25);

// takes articles from 1 to 25
```

Last-page

Method

0 references | 0 changes | 0 authors, 0 changes

```
public static IQueryable<T> LastPage<T>(this IQueryable<T> data, int pageSize)
    => data.Skip(((data.Count() / pageSize) - 1) * pageSize)
        .Take(pageSize);
```

Usage

```
var articlesOnLastPage = dbContext.Articles
    .LastPage(pageSize: 25);

// takes articles from 476 to 500 if you have 500 items
```

Page-Count

Method

1 reference | 0 changes | 0 authors, 0 changes

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

Usage

```
int pageCount = dbContext.Articles
                        .CountOfPages(pageSize: 25);

// it's good when you want generate UI pager
```

Notice

Before Paging you must applying your **filters** and **ordering by**.

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


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