

Pagination

Section 14

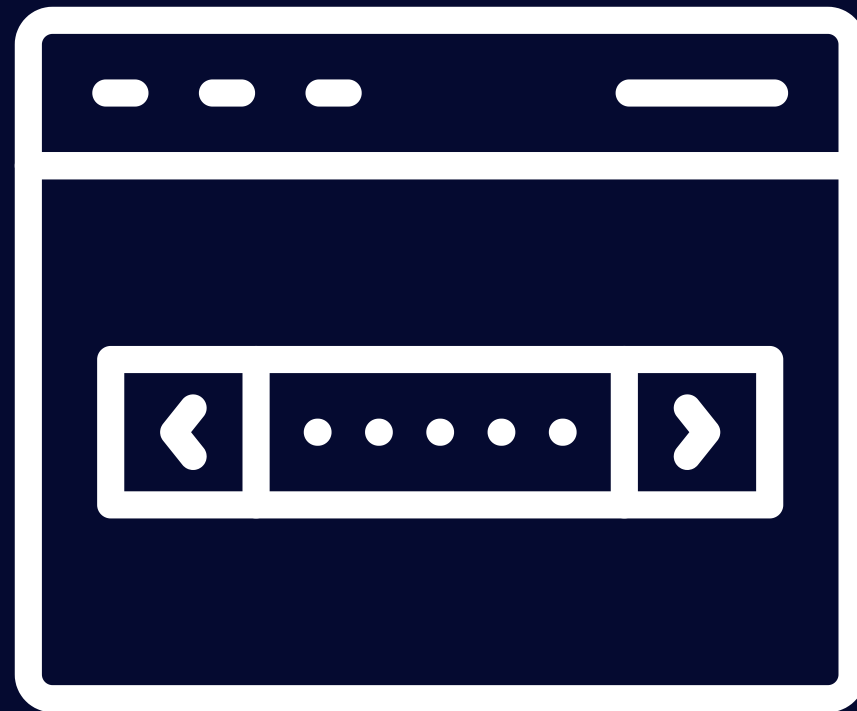
In this section

- Implement Pagination
- Revisiting the queries
- Fetching data



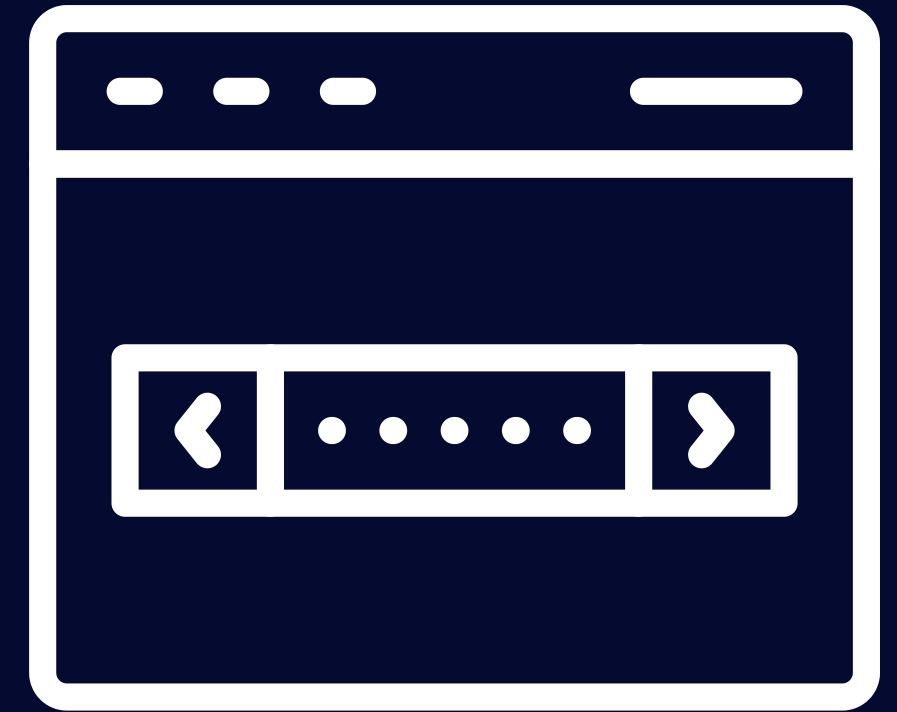
Types of pagination

Offset



Cursor

Offset



Pagesize = 10

Select page 4



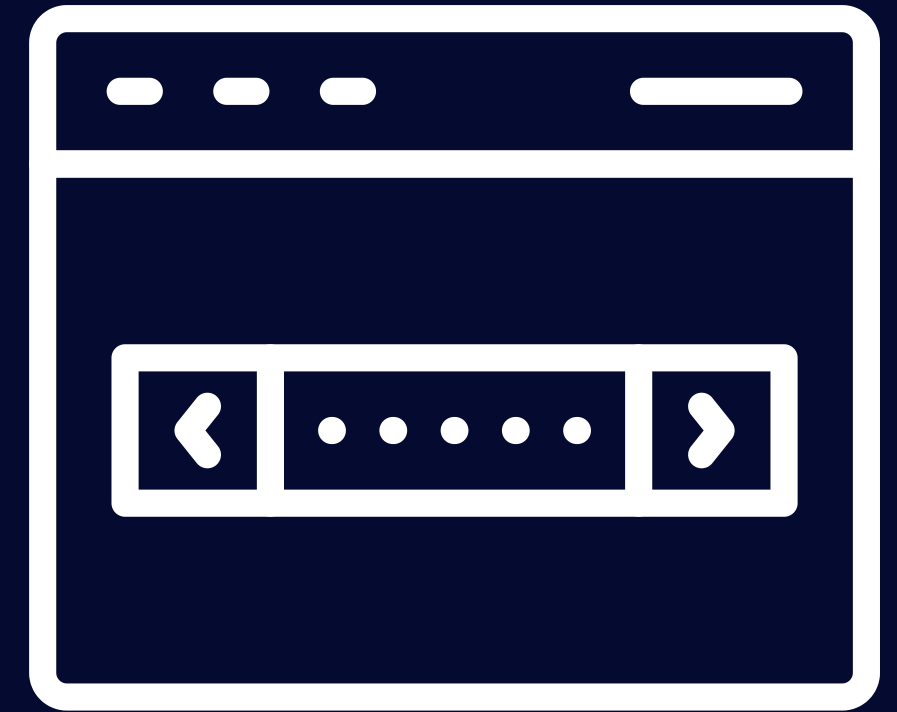
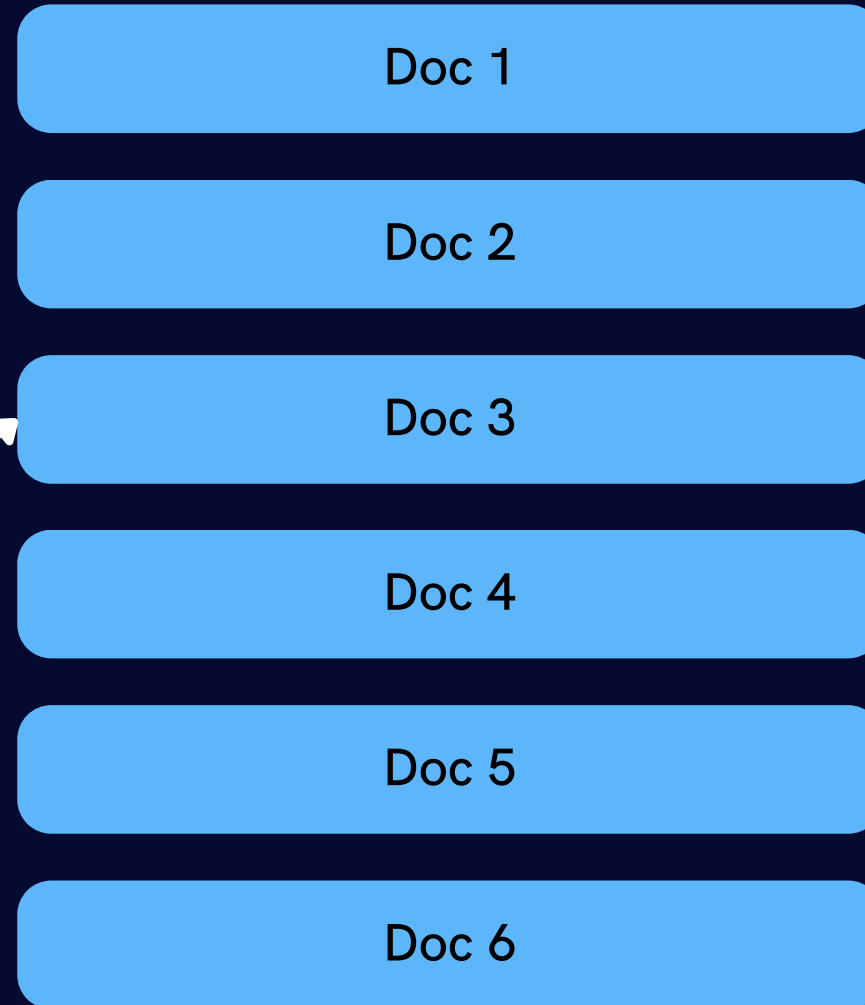
Skip 30 and take 10

Jump to page

Cursor

Start after

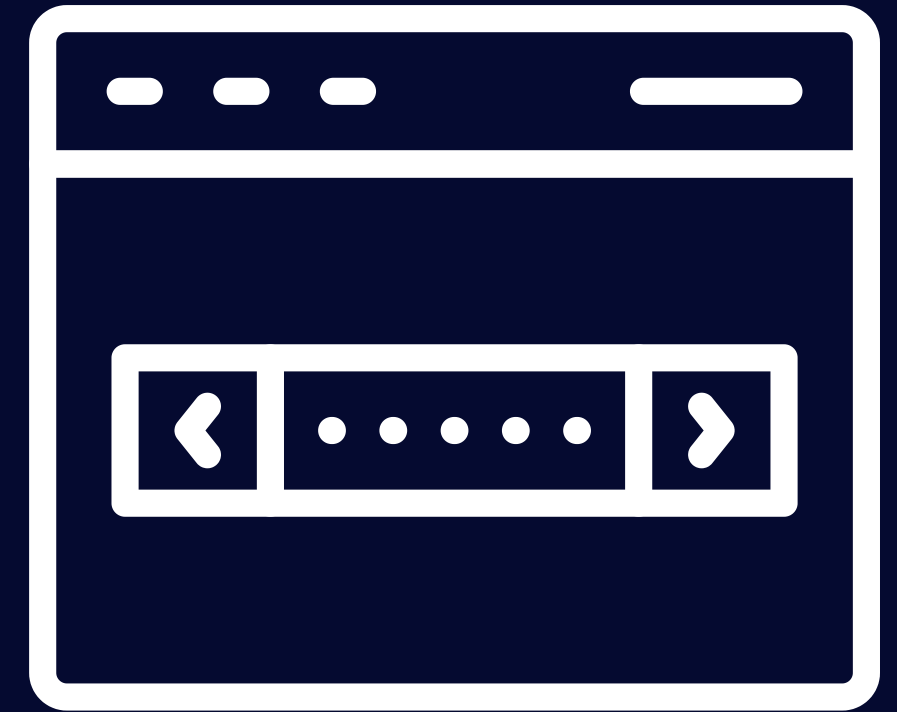
Can be doc field
or query snapshot



Pagesize = 3

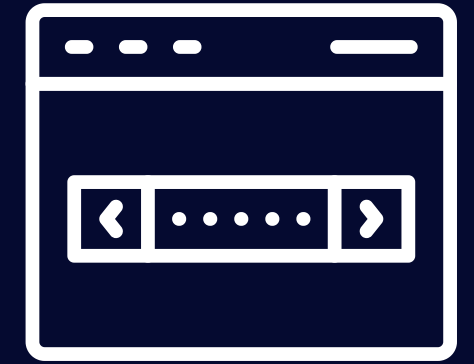
Cursor

Start after

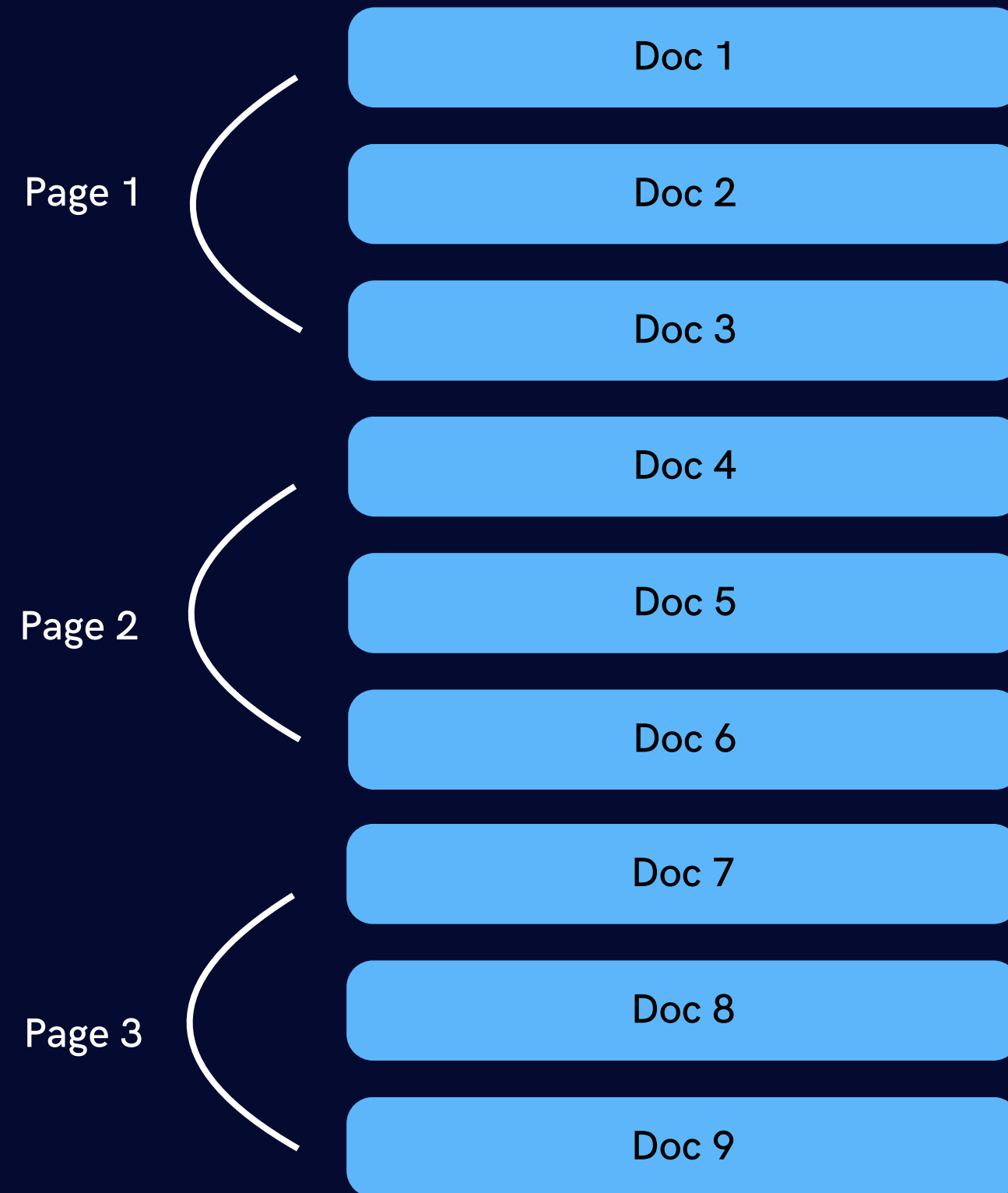


Pagesize = 3

Cursor pagination limitations



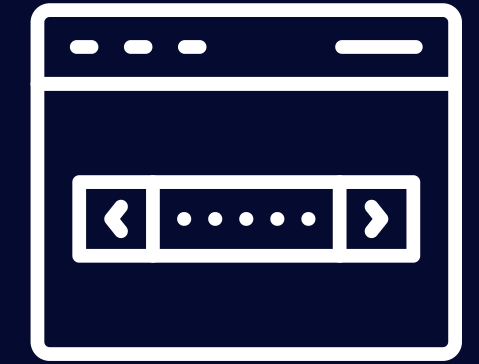
Pagesize = 3



Cannot jump
to page 3

Total count is
unknown

Listening limitations



Pagesize = 3



Page 1



Doc 1

Doc 2

Doc 3



Page 2



Doc 4

Doc 5

Doc 6



Page 3

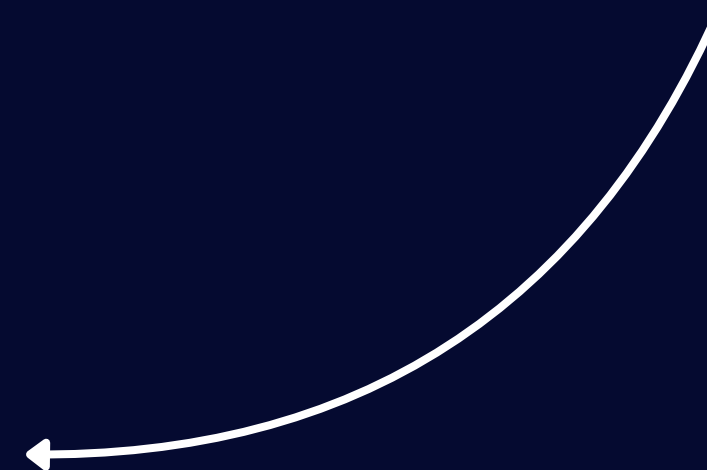


Doc 7

Doc 8

Doc 9

New doc



Listening limitations



Page 1

Doc 1

Doc 2

Doc 3

Doc 4

Doc 5

Doc 6

Doc 7

Doc 8

Doc 9

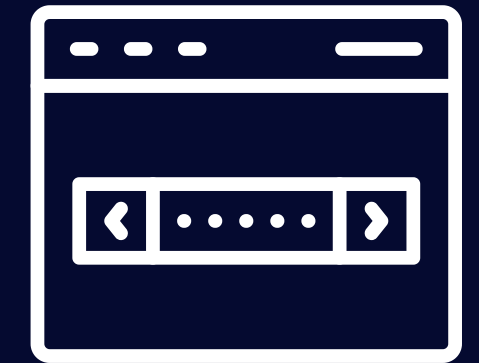
Page 2



Page 3



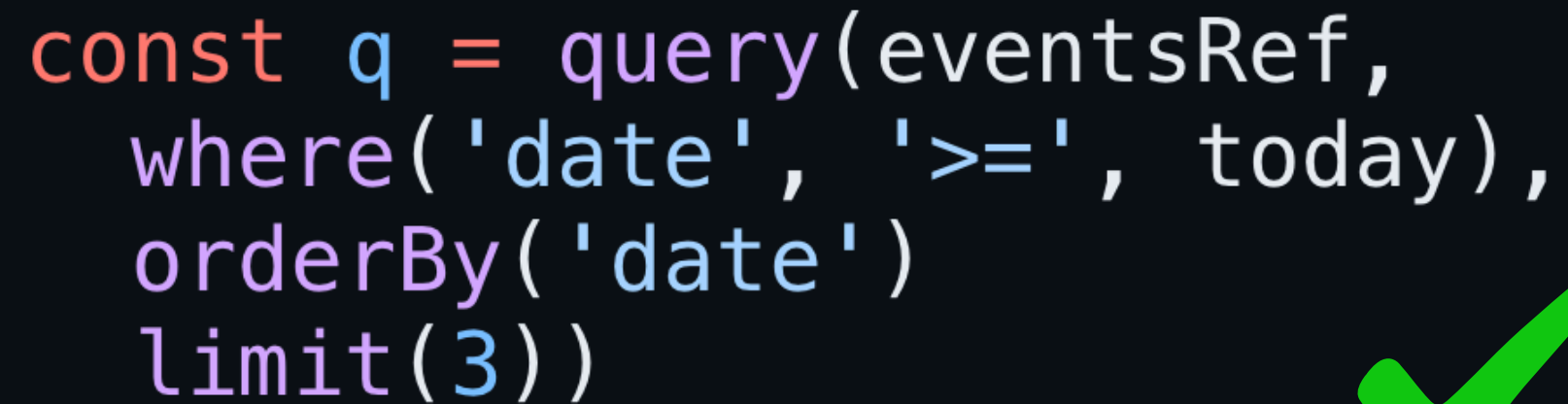
New doc



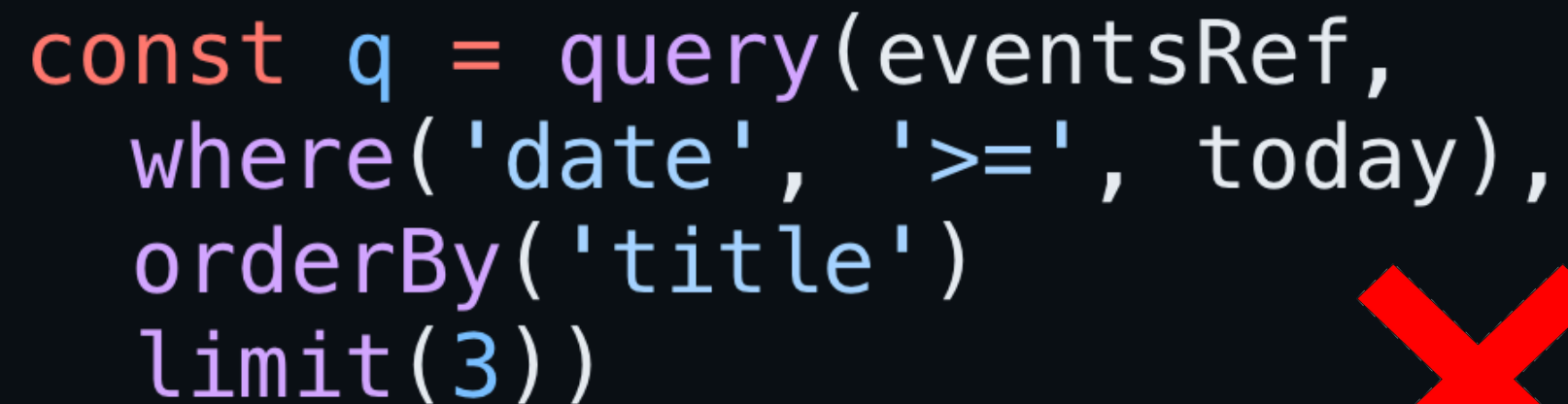

Pagesize = 3




Where, OrderBy, Limit can be combined



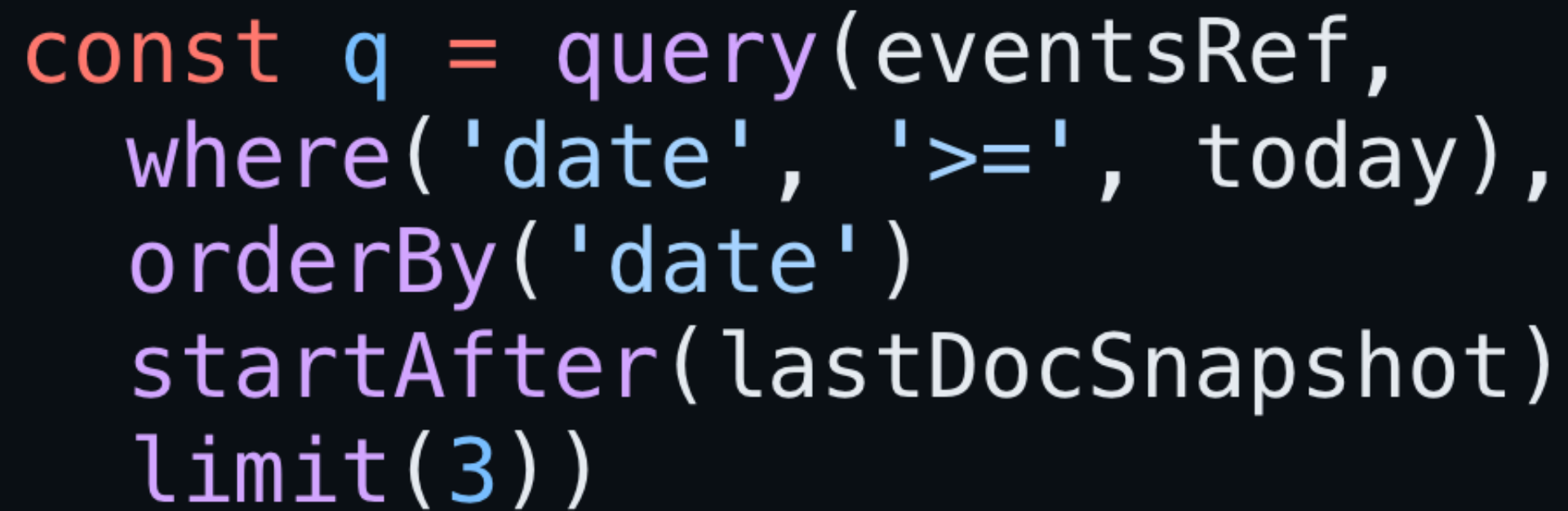
```
const q = query(eventsRef,  
  where('date', '>=', today),  
  orderBy('date')  
  limit(3))
```



```
const q = query(eventsRef,  
  where('date', '>=', today),  
  orderBy('title')  
  limit(3))
```

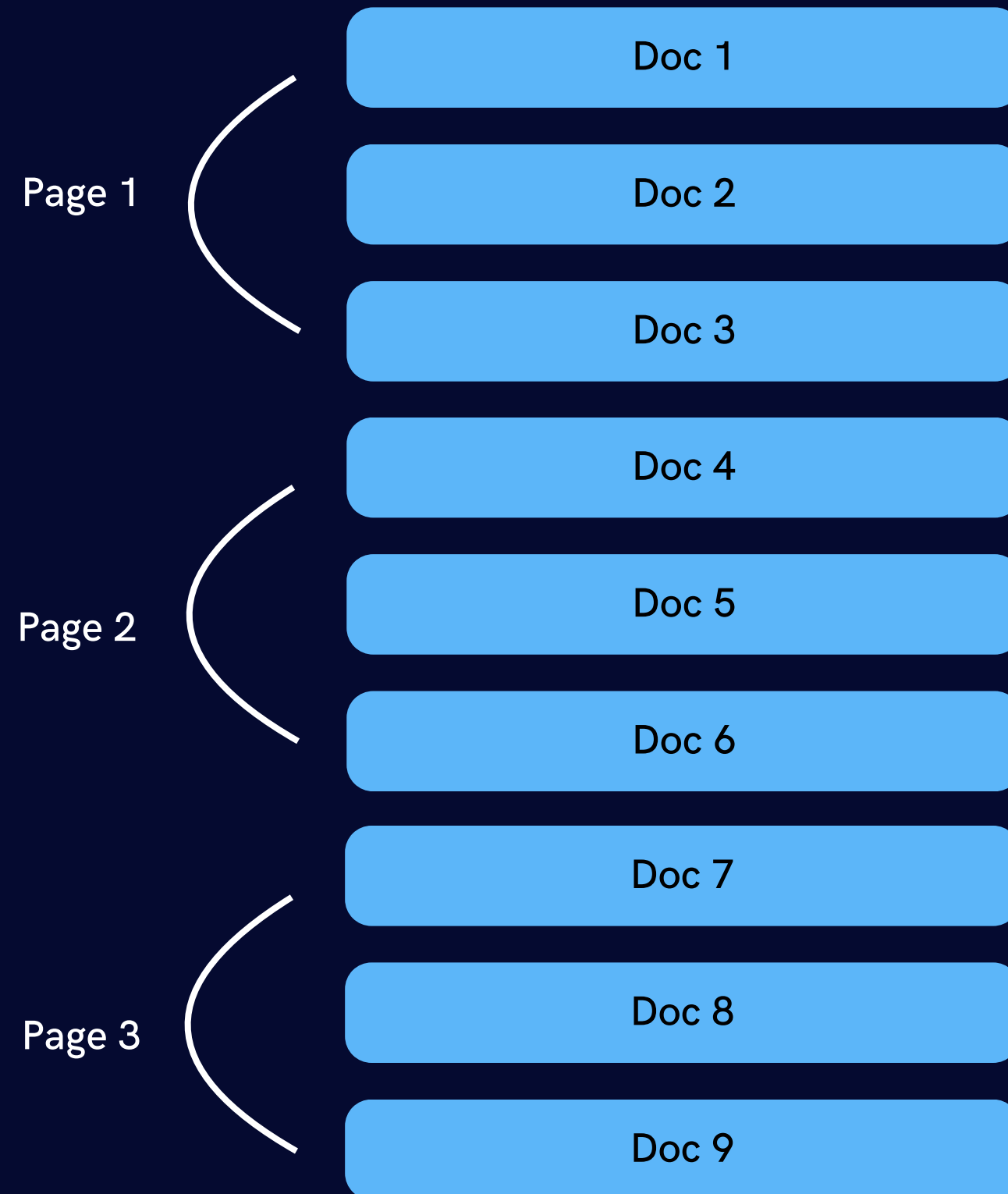


Paginating with Query Cursors



```
const q = query(eventsRef,  
  where('date', '>=', today),  
  orderBy('date')  
  startAfter(lastDocSnapshot)  
  limit(3))
```

But I really want live data!!



```
const q = query(eventsRef,  
  orderBy('date')  
)  
  
const q = query(eventsRef,  
  orderBy('date')  
)  
  
const q = query(eventsRef,  
  orderBy('date')  
  limit(9))
```

3 reads + 6 reads + 9 reads
= 18 reads

Firestore server SDK provides offset pagination

Can offset by (e.g) 40 and get next 20

Still have to pay for offset (40) and the 20

60 reads to get 20 docs!

The goal of this section

Summary

In this section

- Implement Pagination
- Revisiting the queries
- Fetching data



Up next