

MongoDB의 다양한 Index

1 MongoDB의 Index 기본 구조와 효율적인 탐색

What is Index?

1.
정의

Table of Contents

Acknowledgmentsix
Introductionxi

Part I Envision the Possibilities

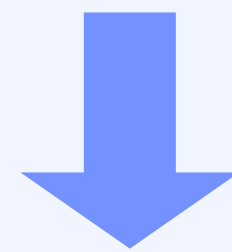
1 Welcome to Office 2010 3
 Features that Fit Your Work Style3
 Changes in Office 20104
 Let Your Ideas Soar5
 Collaborate Easily and Naturally5
 Work Anywhere—and Everywhere6
 Exploring the Ribbon.....7

필드 키를 정렬된 상태로 저장된 Object이다.

Why do you use Index?

1. 정의

**책에서 필요한 내용을 빠르고
효율적으로 찾기 위해 Index를
참조한다.**



**Database에서 Query를 빠르고
효율적으로 실행하기 위해 Index를
사용한다.**

Why do you use Index?

1.
정의

```
> db.trips.estimatedDocumentCount()  
6000007
```

```
> db.trips.find({bikeid: 100})
```

Without Index

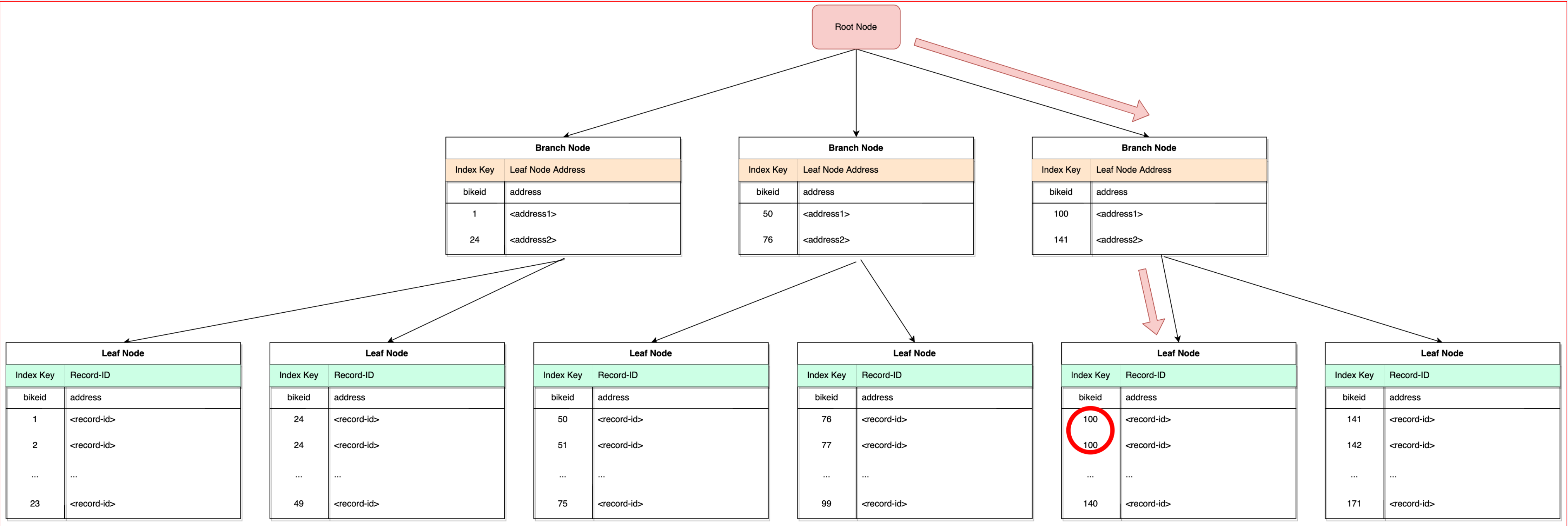
Execution Time : 3488 ms
Total Documents Examined: 6,000,007
Documents Returned : 4

With Index

Execution Time : 1 ms
Total Documents Examined: 4
Documents Returned: 4

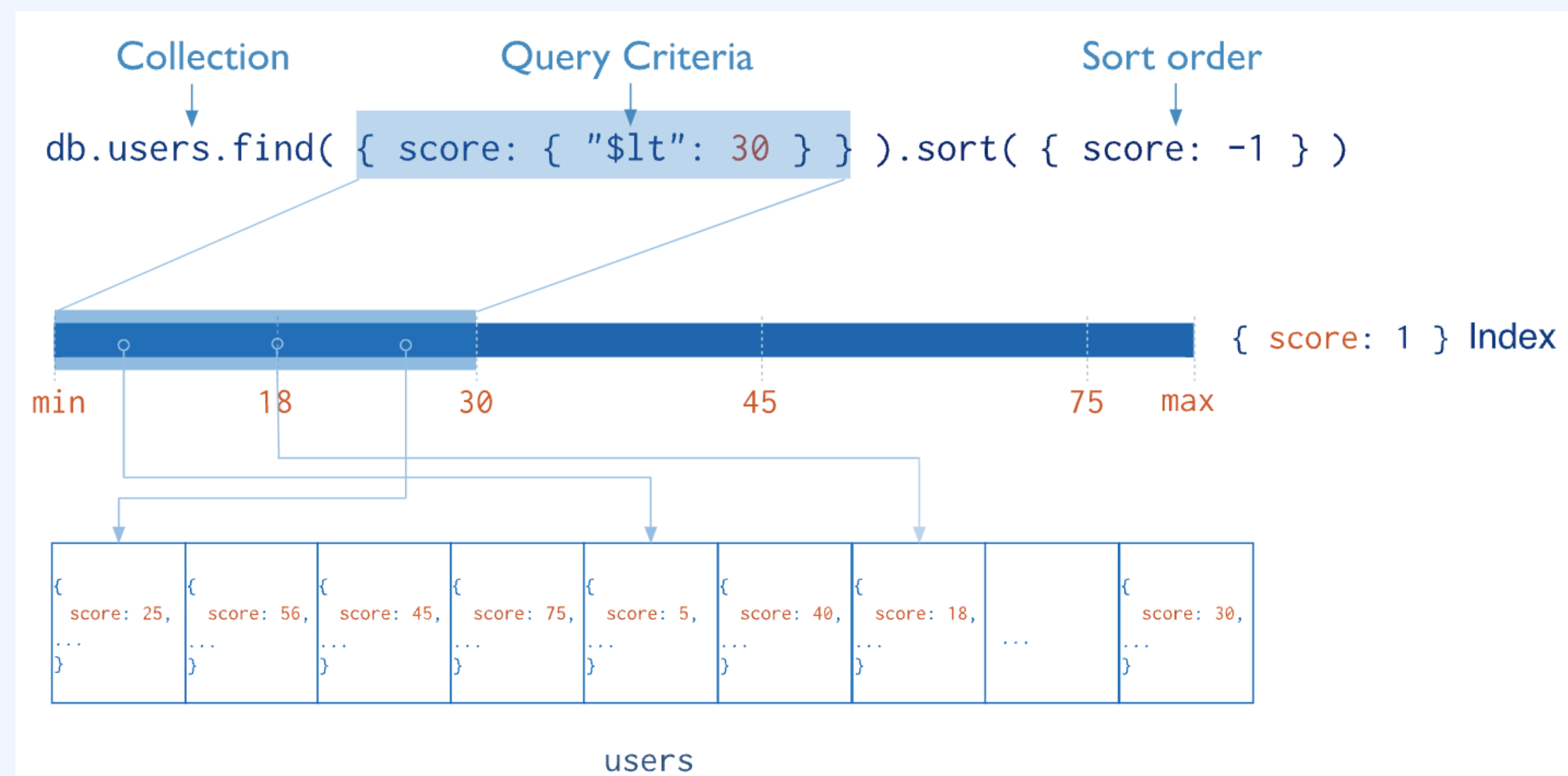
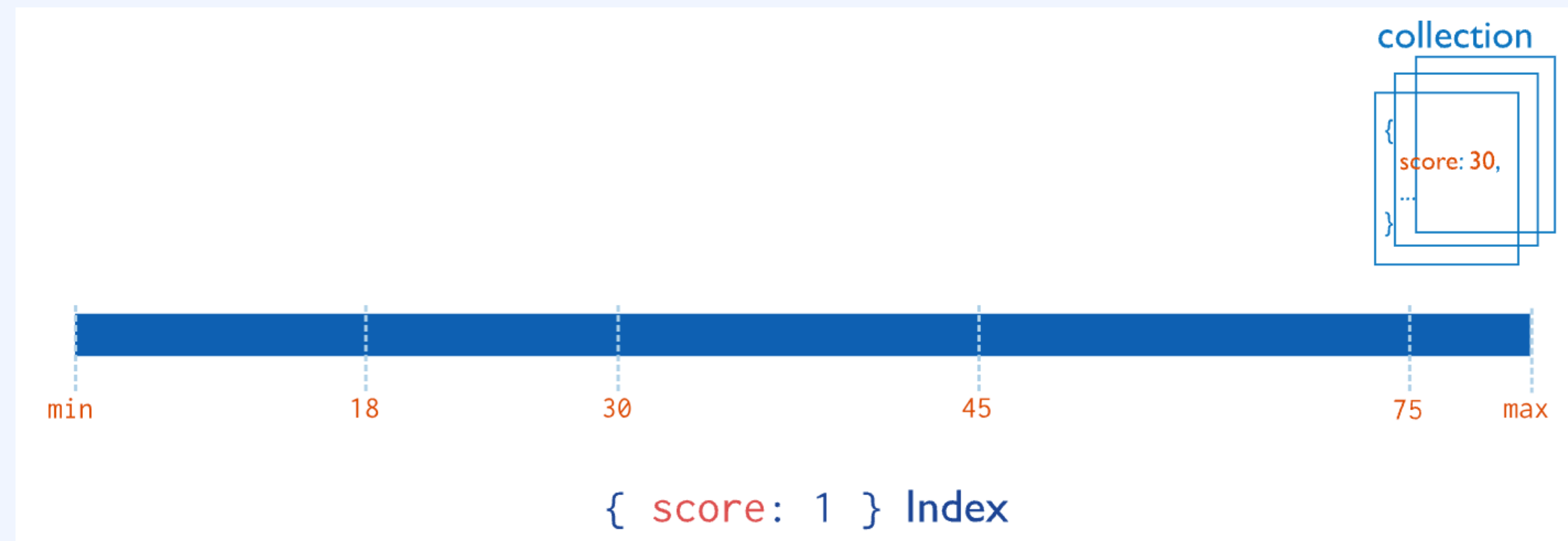
Index 내부 구조

2.
구조



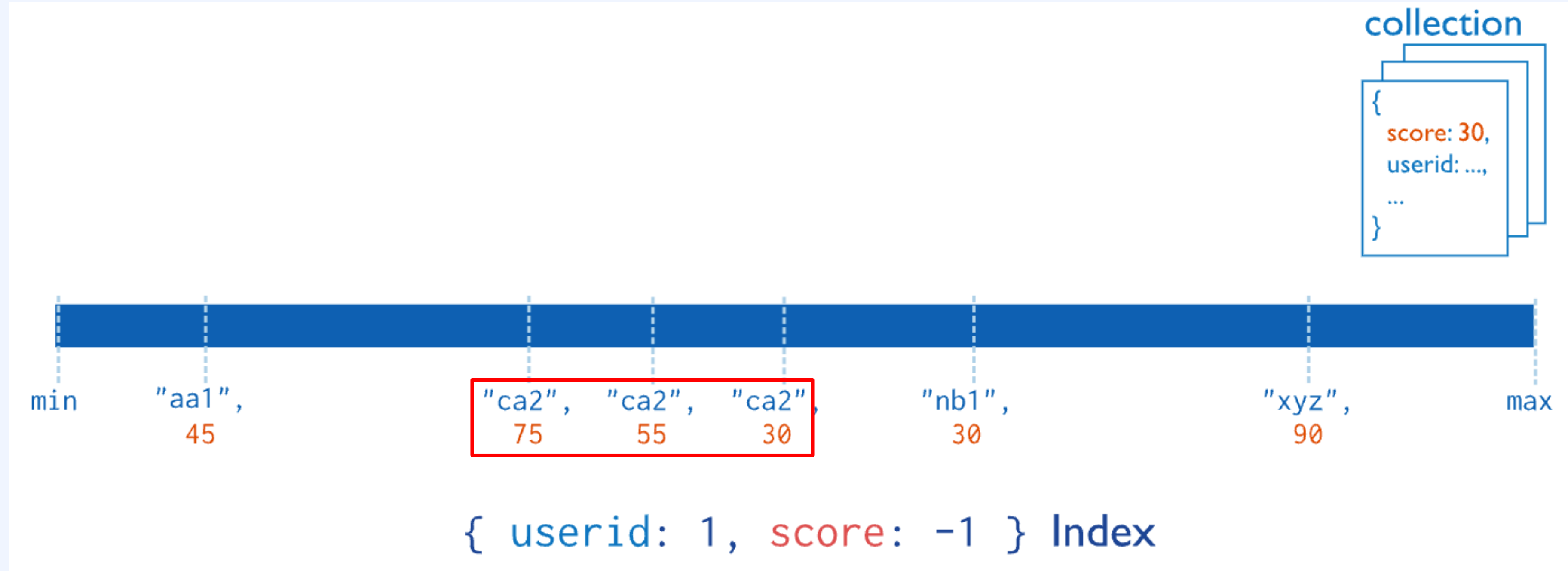
Index 내부 구조

2. 구조



Index 내부 구조

2. 구조



다양한 Index

3.
종류

Single Field Index

Wildcard Index

Unique Index

Compound Index

Text Index

Partial & Sparse Index

Multikey Index

Hashed Index

Case Insensitive Index

Geospatial Index

TTL Index

Hidden Index