broughe Search Engine O Elostic Search of one the tools to make search Engine. @ sparke solr 10w Laterry 1 Throughput 11 search I brate in a files and search for that key word "Thinkpad" Helps to identify the resource bused on some identity. example:  $X = \{1, 2, 3, 4, 5\}$  (o(n) operations) B-Tree, etc Users ) Quenj Indexing crowling

## Inverted Index

Interted Index Of the Ovick brown fox	the state of
sumped over the 10 2y	
> stopwords  Our lary dogs in sum	
-> stopwords	mer
I MA I MAM TOME	
you etc. (3) me tox quickly jump one the bridge.	- 4
-> noise removal	
- th +0.0 11x1	1101
-> sterning stemming: trouble, troubling, troubl	mird
-> Lemmotization: trouble	
the transmit of the periods of the	

Term	Duci	DOCZ	boc 3
Ovick		1 × 1 - 0	×
Brown	×	×	
dog	×	X	
fox	×	×	×
Jump	X	b. 4.	X
1024	X	×	
leap		X	
over	X	X	×
quick	X	X	X
Summer		X	
brige			

It will take much time and space to store the data so me con use B-Tree or Binary digits to represent table. Umitations'-1 consumer more space. 1 No word pocition information is available. pocument. Ollowonles, freq Term Invested Intexes Ovick [2, (1)] [3, [3]] [1, [3]] Brown [2,[2]] (3, (7) ] Bridge This is the process for one word rehnic of data.

Hote: It stores the cocke of menony

Overy seemen [ quick brown for.]

quick  $\rightarrow$  [1, [2]]

(3, [3]]

(3, [3]]

(brown  $\rightarrow$  [1, [3]]

(2) pisivaline or,  $\rightarrow$  compare all for documents.

Fox  $\rightarrow$  [1, [4]]

(21, [3]]

(21, [3]]

If we need to find out the sentonce from the DB then we need to perform consuctive (DND) operation - Intersect the indexes and search for data.

14:13100

alex reches