Indexing
- meproving DB performance - Reducing search space.
- Reducing search space.
Example
-stext Book (1000 Pages)
-> Find instances of a Particular word
Particular word
"E COVICES
* W/O index - stakes a long - start Payel time
- start Payel time
b. I first word and
every word (topto
- Day - 100G
- Pend first wood and
every word
+ w/ index -> Imp directly bottom)
to specific popes
- Read first word and every word + w/ index -> Jup directly botton) to specific pages -> Find c -> Find c (page Nos)
(Pae Nos)

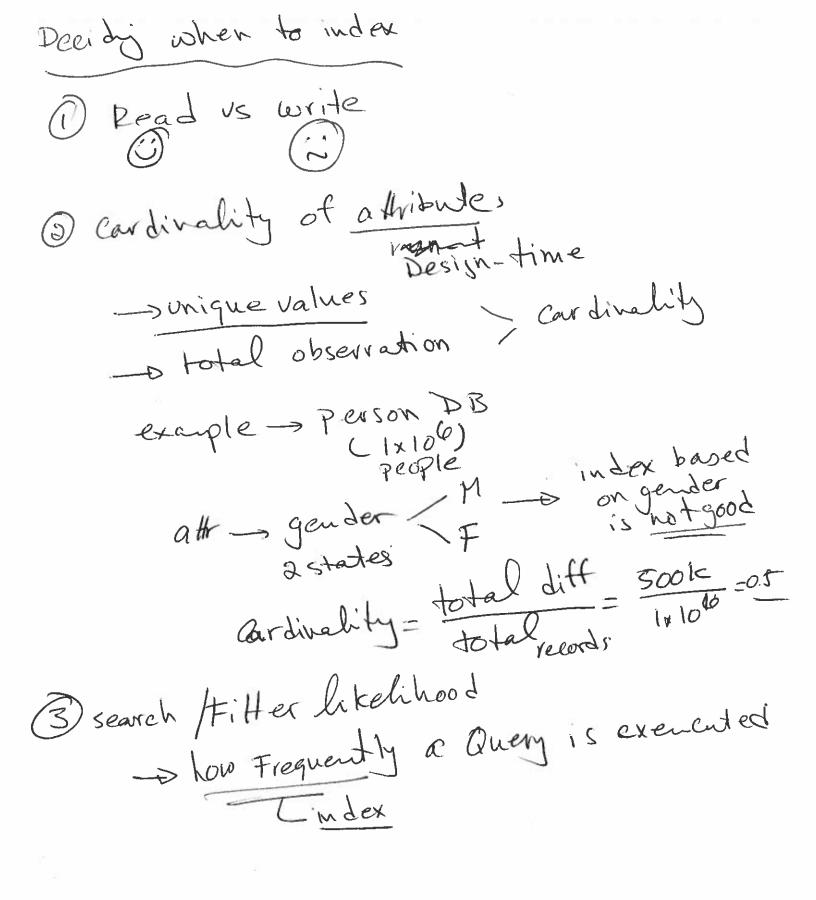
Pert improvement woing indexing is significant

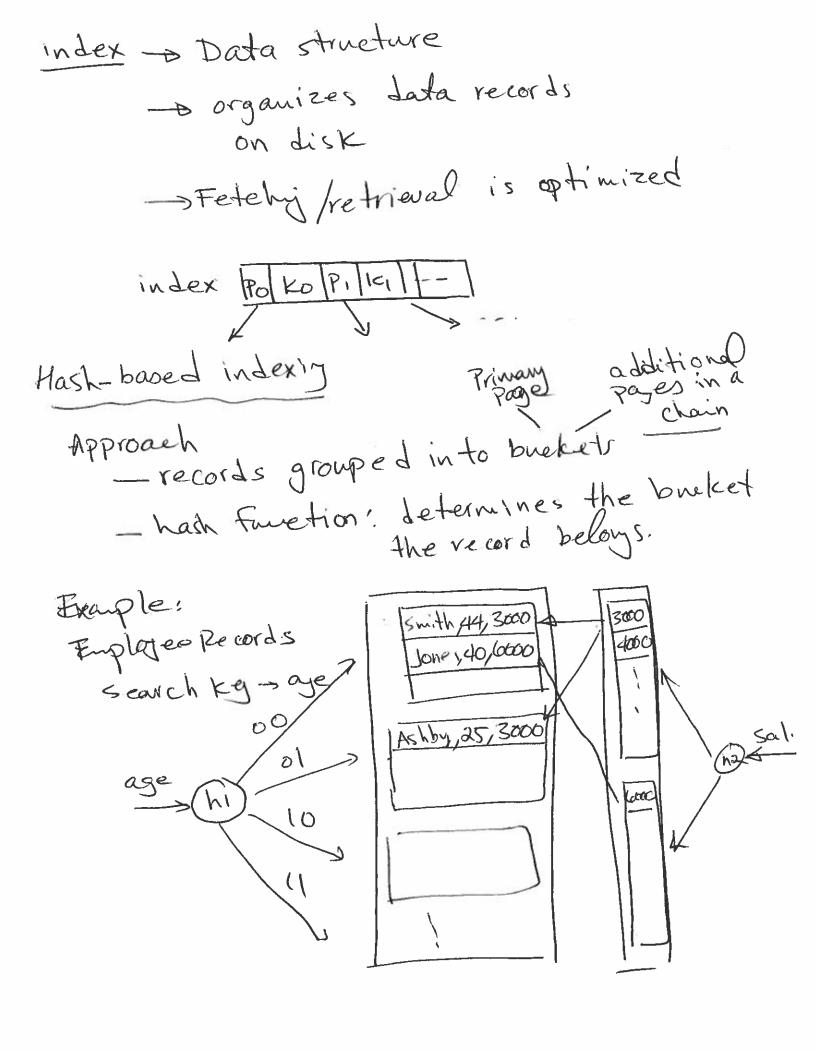
<u>V</u>				
Index	Comp. No	Adno	COST	Ad-no
10	11	48	0.01	
10	20	49	0.02	
10	14	52	0.01	
	10	55	0.03	
	20	62	0.02	
14 //	20	63	0.01	
14	20	64	0.02	
20 \\	1210	77	0.03	
20	20	99	0.03	
20 20	1) 11	101	0.01	
	10	102	0.01	
20	1	119	0.02	
	14	1111		

Separate inda structure index (comp-no, Ad-no) composite

Hash-based indexing

Tree-based Indexing





Tree-based Indexy -> organizes records in a tree like structure. 125 < 78 age >= 78 195 456 7,56 7 Smith 44,300 Jones, 40, 600 Alshby, 25, 300

1,3,5,7,9,2,4,6,8,10 - tree node -> 4 Pointers 3 keys