

CREATE TABLE STUDENT...

CREATE INDEX STUDENTIDX ON STUDENT...

CREATE INDEX STUDENTSINX ON STUDENT...

Indexes: Example

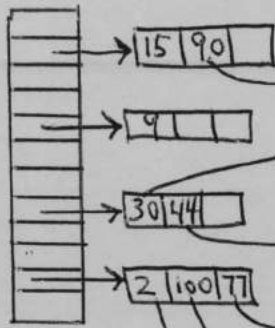
Typically, many rows (tuples) per data page

Sample row on that data page is:

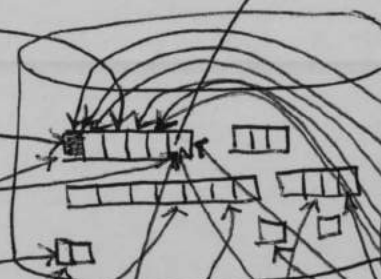
ADAMS	KIM	APSC	44	123777111
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① unique hash index on student ID

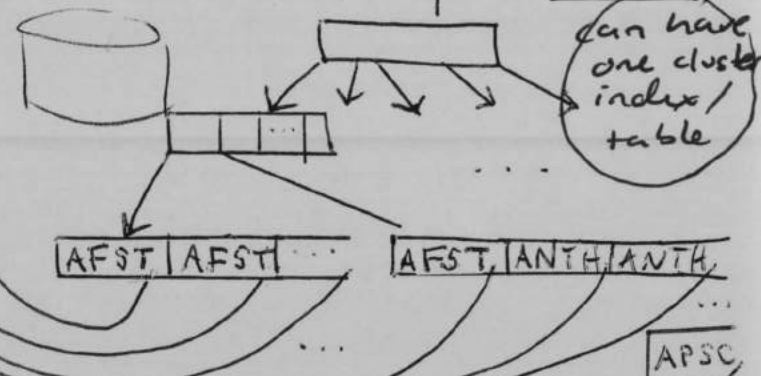
lookup in hash $O(1)$
eg., 44 for Kim Adams



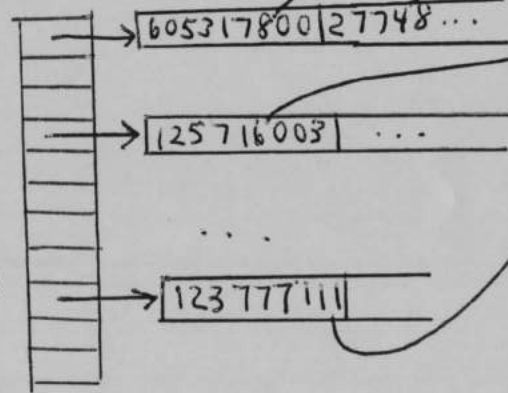
Student Table (Data)



③ non-unique clustering index on Dept (B+ tree)



② unique hash index on S.I.N.



eg., Kim = 123777111

"Clustered" means most of the data pages are physically ordered in the order of the clustering index (e.g., most of the APSC students are together)

④ non-unique, non-clustering B+ tree index on last name

