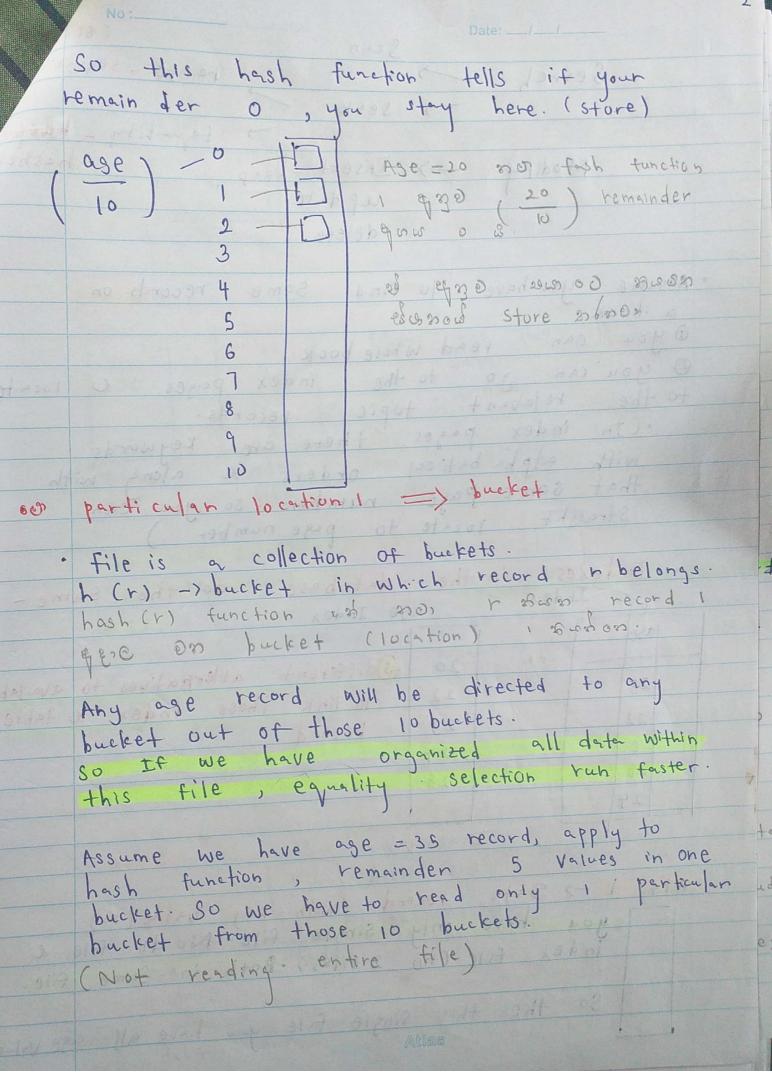
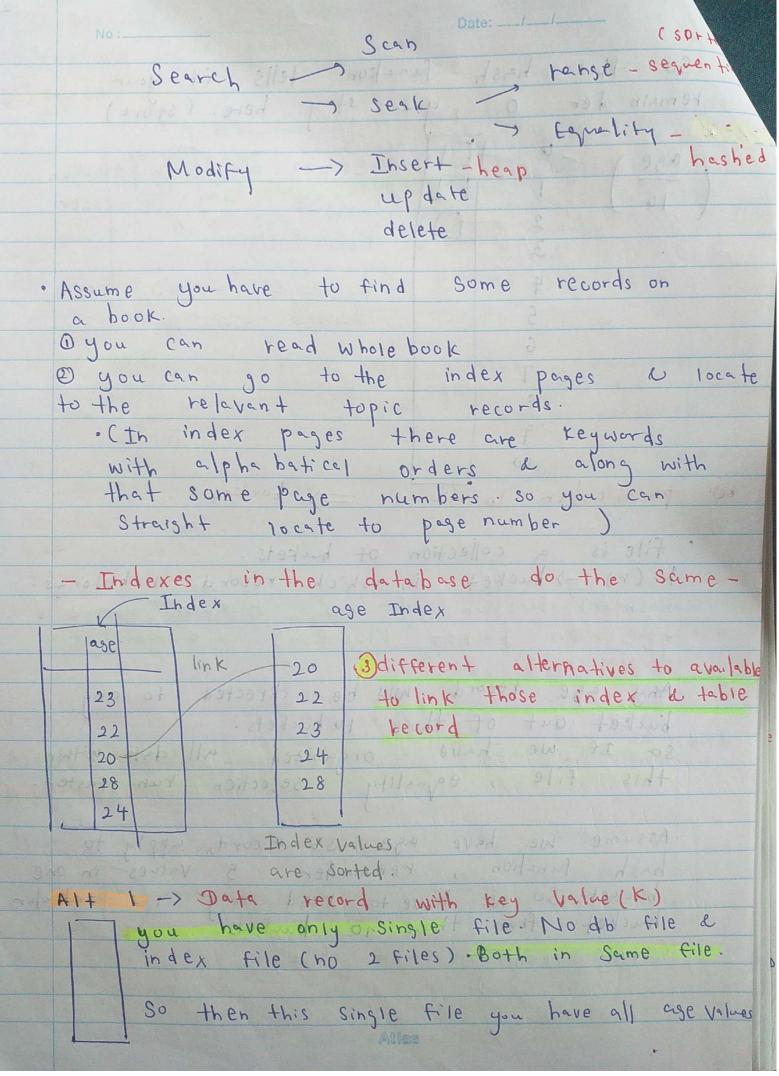
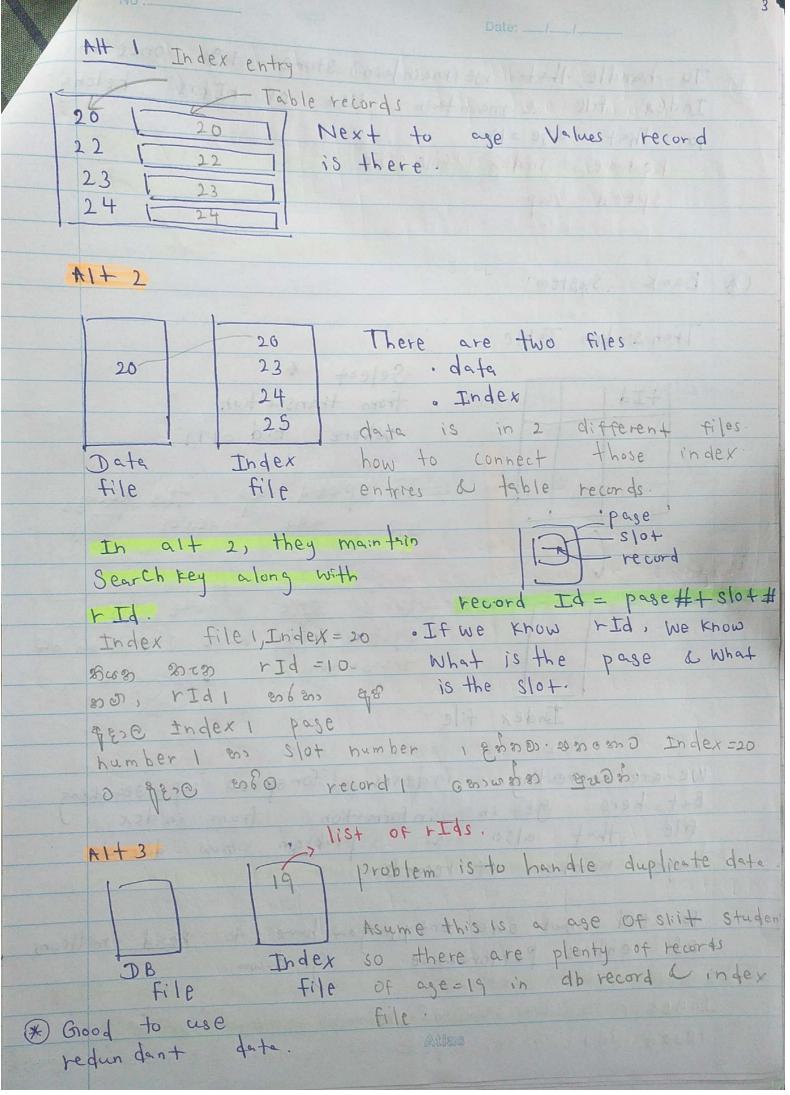


order in hear files If records in random fast = ) . Insert What we can perform 2) Sequential Assume all records are orting use age value in this tile. x for insertion -> hot good. X update -> update sols Value 102menossss 600- ols Value 1 update esso escon 400 record 1 Eros Sorted order 10 en est order 10 X delete -) gelete 200 den 200000 nsugun. Searching is fast for updating & deleting but after that you want to move records here & there. Search Scan When you want to find age between 20-40 \_ range - Sorted files are good J Seak for range telection. equality Assume you want to search age 20 record

(3) Hashed equality against 6202 hash Here it is using Some (hash) function (fh) (- this is organizing records withing the file. Assume my hash function is (age) remainder Value







To handle that we (maintain) stone 19 once in Index file & maintain list of rIdis belong to that age = 19. Reduce index file size speed up

(\* Bank System

+I9

Tran Saction Table of good of

Select \* From transaction Where tid = 111

To speed up this greny we add indexes to at 2) they mand

person. for a one minute this system can have million of a organite tella transactions

Index file

We are creating indexes for speed up searching But here get in information from index

file that also a problem now fue to huge number of records.

To find out one entry, you have to read millions of entries. Performance go down.

Index i & Garenous & record on was and record Id 1 mb en 920 Alles record , oznamon greds

