OI Explain indexed sequential access Scheme for file organization.

of some por it is heldings at me showed?

A the indexed sequential access Scheme , Data in a file cane be organized, rether than a single defined file Structure. In this scheme an index is created with key field and pointers to various blacks. Basitally, there are true files maintained and vindexed file with index and pointers and pointers while the master file with all records.

- each record has a range of bytes and constitutes a key such as account no., person ID etc.

when file is essentially tool loaded, they are sorted by key

There is an index that makes it possible to retrive up a record by key value

Records can be read based on index key, by index lookup and retriveal.

	Snjeet Patil
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	- Records can be updated but its key cannot be
	changed
tol .	I braker interest sequential owns Eleve
	- Records can be read sequentially from start
	to end.
	A The industrial sequential secures Edvene and
korl	Inden Files of Master Ale
	ID Position. Position ID Name Salary
	no 5 5 10 1 1 20 Mishly 1 5000
	20 1 1 2 20 1 Rohan 2000
energy.	405 26 4 80 Spelma 2400
	405 a 6 6 6 6 7 80 Sneha 5000 5 10 Sana 8000
7 3710	5 40 Rita 1,9000.
LSHITHEL	es bus said Follows 60 40 Rita in 9000.
	. 318 112 113009
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	* There is an index theth makes It prattel. retrive up a record by ney value.
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V	index boken and retrival.
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82. What are the basis file operation?

sol" A file is any abstract datatype for defining a file property, we need to consider the operations that can be performed on file there are six basic file operations within an operating system there are

(a) Creating a file: - There are two Steps necessary to create a file. First, Space in file system must be found for a file so to allocate.

Space for file second, an entry for new file must be made in directory.

(b) writing a file of to write to a file, your make: a system told specify about both the name of the file along with information to be written to file.

(c) Reading a file: To read from a file, we use a System call which species the aname of the file and where withen memory, the name block of file should be placed.

(d) Repositioning inside a file: The disectory is
for suitable entry, and the "current file
position pointer" is relocating to a given
value. Relocation within a file need
not require any To. It is also
called "file seek"

maraby system the one

- (e) Deleting a file: for deleting a file you must search directory for specific file.

 Delution of file releases and all file space that can be used by other files.
- (F) Truncating a file: The user may hish to
 erase contents of a file but keep the
 attributes. Same Rother them deleting a file
 and recoreate it; this utility allows all
 attributes of file to remain unchanged encept
 file length and allows were at to add or
 edit file content

er ragge of the Ale and which species the smeld memory the short block of file should

be purch

03. Emplain Hashed Indices And Hashed Indices uses the concepts of hashing. As hasting is used to comput the address. of a record by using hash function on Search key value, If at any point to time, hashed the map to so some address, then collision occurs and so schemes to resolve collisions are applied to generale new address.

The critical to success of this technique is to choose a good hash function i.e. it has two things first. It Should give an average Case booking i.e. Small constant, irrespective Of number of Search key. Secondly, the function distributes records uniformly and randomly among the buckets, Correspondingly, worst hash function maps all the keys to same bucket

It is recommended to set number of buckets to twice the as number of Search key values in file This gives a good Space - performace trade off, A hashed file organisation uses hashed.

Suject Patil A028 indices. Mashing is used to calculate address of disk block where desired record is stored in at what without hand hatting is used to comput the obligion. In a hashed file organisation, secondary indices needs to be organised using L herred ant. Whashing and on of your said occurs and son scheme to delision are applied to decrease some woisilla eddress. he critical to success of this technique is to choose a good hash function i.e. I has ino things first. It sould give an average ise looking i.e. small constant, irrespective Of rumber of search per, Secondy the Enthon distributes records uniformly and randomly among the buckets, correspondingly, worst hasto tundion maps all the longs to some butket. It is recommended to set number of buckets to truice the is number of Gords see values in Ale This gives a and space - performance trade. aff, A holded file organisation uses harland.