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- Indexed sequential access file combines tot both sequential file and direct accessfile organisation In this the record are stored randomly and disect access device such as magnetic disk by a primarykey, This file have multiple Roys. This keys can be alphanumeric in which the record are ordered as primary key. In this the data can be accessed either sequentially ar randomly civing the index. The index is stored in a file and read into memory when the file is

grend.

Q2. There are 6 bask file operations: -

1. Creating A File: There are 2 steps necessary for creating of file tirst, space in the file system must be found for the file. We discuss how to allocate space for the file. Second, on entry for the new file must be made in the directory.

- 2. Writing A File: To write file, you make a system call specification lists the name of the file along with the information to be written to the file.
- 3. Reading A File: To read from a file yors use a system call which specifies the name of the file and where within the memory the next block of file should be placed.
- a. Repositioning Isside Atile: The directory is then searched for suitable entry, and then aurrent-file position pointer is relocated to a given value
- 5. Deleting A File: For deleting a file, we have to pearch the directory for specific file.

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OB defor , we have studied that hashing is used to compute the key value. Yat any point of time, the hisked volues map to the same address, then collision occurs and schemes to resolve this collision are applied to generate a new Choosing agood hash function is critical to the success of this technique. By a good hash function, no mean 2 things First, a good hash function, irrespective of the number of search keys, gives an average case lookup Lecondly, The function distributes records ciriformly and rendonly among the burket, where a bucket unit of one or more decords Correspondingly, the inverst hosh function is one that maps all keys to the same & fowever, the drawback of wing hash indices includes - Though the numbers of luckets is fixed, the number of files Ith number of lakets is too large storage space is wasted. If thenumber of buckets is too small, there may be too money It is recomended to set the number of luckets to twee the number of the Marchkeys volues in the file. This gives a good spice- performance traderoff.

