

A decorative graphic on the left side of the slide, consisting of a network of white lines and circles on a teal background, resembling a circuit board or a neural network.

WEEK 3

ADDING, MODIFYING AND DELETING RECORDS ON THE HARD DRIVE

CS3319

STUDENT OBJECTIVES

- Upon completion of this video, you should be able to:
 - List at least 3 of the actions that are performed when working with databases and hard drives

TYPICAL OPERATIONS ON FILES

- **OPEN:** Readies the file for access, and associates a pointer that will refer to a current file record at each point in time.
- **FIND:** Searches for the first file record that satisfies a certain condition, and makes it the current file record.
- **FINDNEXT and FINDINARANGE:** Searches for the next file record (from the current record) that satisfies a certain condition, and makes it the current file record.
- **READ:** Reads the current file record into a program variable.
- **INSERT:** Inserts a new record into the file & makes it the current file record.
- **DELETE:** Removes the current file record from the file, usually by marking the record to indicate that it is no longer valid.
- **MODIFY:** Changes the values of some fields of the current file record.
- **CLOSE:** Terminates access to the file.
- **REORGANIZE:** Reorganizes the file records.
 - For example, the records marked deleted are physically removed from the file or a new organization of the file records is created.
- **READ_ORDERED:** Read the file blocks in order of a specific field of the file.

ASSUME WE HAVE RECORDS AND WE WANT TO:

- Add the new record: HOMER SIMPSON, 03/03/1980 M 1234

- Find and modify the record: NED FLANDERS, 04/04/1982 M 4444

- Delete the record: MAGGIE SIMPSON, 03/03/1990 F 5555

So what's the best way to design the table to make it easy to store files?