Subject: Inata base Lec 1: Introduction to dieta base Systems,
what is data ? It's unprocessed known Ports that can be recorded
and have an implicit meaning.
The continue of the characteristics
What is Data base ? It's a collection of related data which
15 logically Coherent with some inherest meaning.
What is Mini-world Unprocessed? Parts of real world data
A which stored in database ex. Students grades at University
The sale of the state of the state of the sale of the
What is Database Management System (DBMS)?
A software or System used to facilitate the creation and
maintenance of a computerized database "Create and Modify OB"
The state of the s
What is Database System? It's data and DBMS software
tagether, Sometimes, the applications included.
Data Maragement Approaches:
1) Manual approach = 1
2) File-Based approach.
3) Datebase approach
existing of the state of the Homes of
D. Manual-File handling System:
The primitive and transitional way
· Cards and Papers used to handle information
Works well with Small date.
Events and objects are written on paper.
Files Containing different Cabeled data
. Files stored in one or more Cabinet.

1

Subject: Insertion good retriared are done by searching for, Cabinet > File > information accessing.

Manual indexing System used to ease data accessing. Little 12 to the state of the same Limitations · Date organization is bad.

Not Efficient · Not Essicient Smell Scale " limited to Small size information" · requires intensive human labor · Prone to error . Difficult to update, vet viene, manipulate, duplicate and integrate. Esses Stasses to Stasses servis · CROSS referencing is diffucult. 2) File Based: Early attempt to computerized the manual hile system · De centeralized computer i cod data handling method pras: press all the managen to end at a Color . Files is a collection of records which Contains logically related data. Files accessing is more efficient. constante all my of lover properties to leave the · Every application defines and manages it's own data which leads to data duplication problem, Data Redundancy and wasting space. · Separation and isolation of data

Date: / 3) Database; . It's a shared Corporate resource with no duplication. . Data independence which means data is separated from application program. . It has Metadete for Date dictionary which is a self descriptive collection on integrated . Has locally related data Comprised entities and attributes and relations of an organization's information. Limitations: Tt needs professional and specialized person Celled Database admin. · Developing and maintaining System needs
High Cost. High Cost. · Complexity in designing and managing date. . High impact on the 3 ystem when failure occures to the Central system. Performance may be reduced due to Centeraliza High effort to transfer data from current system. · Complex backup and recovery services from User's perspective. or the first and service to the first in the