Disadvantages: - Program-data dependence \* Duplication of data \* Limited data sharing -Lengthy development times \* Excessive Program maintenance (i)- Program-data dependence; File description are stored within each database application program that accesses a given file. Database application=) In application program that is used to perform a series of database activities on behalf of database users. (ii) Duplication of Data: Because applications are often developed independently in file processing Systems, uplanned duplicate data files are the rule rather than the exception. The same data can be present in two or more files which takes up more disc space.

## Mon Tue Wed Thu Pri Sat (iii) Limited Data Sharing: With the traditional file processing approach, each application has its own private files and users have little opportunity to share data outside their own applications. (iv). Lengthy Development Times: . Each new application requires that the developer essentially start from Scratch by designing new file formats and descriptions and then writing the file access logic. for each new program. The lengthy development times required are inconsistent. (v) Excessive: Program Maintenance: The Preceding factors all combined to create a heavy program maintenance load in

organizations that relied on

traditional file processing system

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	Database Opproach Advantage	25:
(ئ)	Program - data Independence:	
	Program - data Independence:. The Separation of data	
	descriptions from the	_
	application programs that.	
	use the data. 29  Data descriptions are stored in	
	a Central. location called the	. :
	repository.	
	-> It allows an organization's	
	data to change and evolve.	
	programs.	
100		
(ان	Planned Data Redundancy;	
	Redundancy is also called data	
	duplication "	
	The data in a database approx	-
	only once and is not duplicated.	_
	37 does not eliminate redundancy	(v) -
	entirely, but it enables the designer	
	to control the type in amount.	
	of Yedundancu	

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applications.	
-> Many database	management
Systems also pv	
tools to assist	
development.	
3H provides a nu	umber of high
level productivity	
forms and report	
high level langua	
Vi) Enforcement of	- ,,
The database ad	
should be granted	
authority and re	9
establishing and	
standards	9
These standards	will include
naming Convention.	
Standards and w	
for accessing, upde	ating and
protecting data.	
(Vii) Improved Data	Quality:
9+ provides a	•
and processes to	improve data
quality:	
*- Constraint	

UX)	Reduced Program Maintenance	
	J.n. a database environment.	_
	data are more independent of	
	the application programs that use	
	them	
	-> We can change either the	
	data or the application programs	100
	that use the data without	
	necessitating a change in the	
	Program maintenance can be	
	Significantly reduced in a modern	
	database envisonment	
(x)	Improved Decision Support:	
	Some databases are designed	
	enpressly for decision support	
	applications.	
	Example:	
	Some databases are designed	
	to support customer relationship	-
	management.	
	itable mailinings	
		-

## omponents Of Database () Repository: > I repository is Collection of all data definitions, data relationships, output styles and report formats etc. -> All this information is the metadata that is important to manage database. (ii) Database Management System: Collection of Programs that are used to maintain a Database: IMA organized collection jos related data. "organized" means data is stored in such way that the user can Store, manipulate and retrieve data

( Wed The Wed The Est
The word "volution" / 120
The word "related" means that a
database is normally created to
- Store the data about a particular
120 A
(iv) Application Program:
- At is a program that is used !
- to send commands to the database
management system to manipulate
database.
These commands are sent to the
DBMs through graphical user interface.
(v) User Interface:
It is a visual environment
that is used by the user to
Communicate with the Computer.
-) It consists of menus, buttons,
forms and reports etc.
-> All window based software use
graphical user interface.
(vi) Data m Database Administrators:
Data administrators are the
persons who are responsible of
whole information system
anthorize accounts the
database as well as wordinate

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	and monitor the use of database.
(vii)	System Analyst & Application
	Programmers:
	- System analyst determine the
	requirements of end users and
	develop specifications for transactions.
	-> Application programmers implement
	these specifications by programs.
liii)	End User:
	-> End users lave those perison!
	who interact with the application
	directly.
	They are responsible to insert,
	delete and update data in the
	database.
	THE RANGE OF Database
	Applications
	There are several methods for
	people to interact with the data
	in the database.
	First, users can interact directly
	with the database using the user
	interface provided by the DBMs.

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tho	Various operat	Date: _/_/20				
	the various operational :  databases.  Data warehouse provide users with					
-						
4						
	ortunity to wor					
	data to ide	5				
	nds and answers	s to strodegic				
business	questions.	3)				
0.	On Detail	Λ				
Summa	ary of Datab	ase App				
177	KI I III					
Types	No. of users	Size of database				
Personal	1	Megabytes				
Two-tier	5-100	Mega-gigabytes				
Three-tier	100-1000	Gigabytes				
ERP	>100	Giga - terapytes				
Data Ware-	7 100	Teva-petabytes_				
housing						
•••	*					
	10.77.71					