## Databases Management System\_\_\_

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Jt is a system software system designed to manage and organize data in a structured manner. It is a collection of software programs that provides an interface by we users and the databases, allowing users to store, includes, update and delete data in a structured and efficient manney,

Some impositant useful am piece of information that gives some collective analysis about any portiular fields.

· Data of how many people affected by COVID?

· Data of what is the population of India?

· Data about particular students of University

· Data about users Transaction.

\*

File based system: -It is something like staring our data inside woord file, text file, excel file.

All these are file based system

Evom these file based system, where use have soft copies date stored in files, these files xlo are stored in hardisk our hard down.

\* Peroblems with file based system: 
Data Redundency:

It vieles to the dublication of data within a database. This can occur when the same data is stored in multiple tables our when the same data is stored in the same table multiples times. This "data oredundancy can lead to a number of problems "data inconsistency."

Data inconsistency:

This a state in which the same data is started in different locations within a database but has different values our meanings in those locations. This can occur due to data oredundency our when the data is not peroperly updated our

> Defficult Data Access: = Difficult data access orefers to the challenge of vetricing our manipulating data within a database due to its complexity our lack of ourganization. This can occur when the database schema is poorly designed our when the data is not properly indexed which can lead to slow query performance and difficulty in finding the required data.

Databases It is a collection of related data

-> helps to solve problem of redundency inconsistency

-> Easy app integration apps

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<del>\</del>	There are all types of database management system. Means all databases store data un different
	journs. Hears de databuses stove data un defferent
	For example:
-	There are some databases that well store our
	Some databases will store in ken village bubes
->	Some databases will store in the four of tables.  Some databases will store in the four of
	documents
8	One of the most important database management
	one of the most important database management system that actually exist is RDBMS.
	Relational Database Management System
Þ	RDBMS: — In orelational management system we store data in form of Tables;
	slave dala un farm of lables.
*	Mysol is a type of relational DBMS
	Every table in relational DBHS denotes an entity excample: - Student is an entity
	The state of the s
	Mous because every real life entity has some proporties.
	student entity having rollno, name of student,
	jather's names, address etc. All these persperties
Karana Awa	Mow because every real life entity has some properties.  for example:  'student' entity having rollno, name of student,  jather's names, address etc. All these properties  defines an entity.
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entity 3 Properties of the student Page. vious -> orepresents actual clata of an entity. Table so this table actually representing an entity (student and the columns actually represents peroperties of the entity and one individual vious represents one unique entityes actual data