Darshave Manggement System	
Approach to Data Manggement from files to	
A file is a collection of Records or documents dealing with an organization, person, area or subject.	
dealing with an organization, person, area or subject.	
File based sys Km	1
marghage -	
- The based system was the first method to store	
date in computers. The date was stored and	1
setrieved sequentially from the disk.	1
- File based systems are an early attempt to	1
Computerise the manual filing system.	
Drawbacks - A	-
	1
- Data Redundance and Inconsistence	-
- Unout it is and Inconsistency	
- Dala 18 station	
- Color as As A	
- Concurrent Acees Anomalics	
- Scenerty brues	
- Integrity assues	
- Revovery (ssaies	
DBM3 was introduced to overcome the	
limitation of Pile based system.	
DRMS - is the system that work and	
DBM3 - is the System that worke on a	11/1
database which is a static storage.	
Database May 29 - 1/2 and in database through DBMS.	
Dats base Management largely involves?	
alorage of Data	
-> Manipulation of the Data	
-> Access restriction for unauthorized users	

				, Augustic	-			
				Me-	marine 1			
	Relationse Database Management System (RDBMS)							
7	Relaxbound databases connect the Information (Data) in							
	different files by using common information							
-	Information (Dats) & world in different tobles							
	relational characters each having a Kay Hold							
	and a come a conductal agentific each son							
-7	of information to another.							
	& James to the same of the sam							
	example -							
	DBI							
	fixt-home	last name	ame Soviet Security No					
	John	smith	010-22-7432					
2	John Noha Gupta 003.63-6037							
282								
	DOB SSH							
	6/12/82 0/6 2 2 9432							
	DB3 5/9/40 603-63-0037							
	Address SSM							
1:	12 cross 01022-7632							
1	168 M. Avenul 003-63-00	对		T. T. TX	HA TELLE			
	Advantages -		ult.	14-14-5	dille			
	The database server and application took can be							
easily installed and upgraded.								
1	- DBM's pounity multiple database users to access							
1 -	- Austria time l'Assistante de l'après à							
- Authorization and privilege control features in an RDBMs permit the DBA to sent access to								
authorized users and grant privileges to individuel								
	were desired from the types of DB tester they need to							
perform.								

Support data Independence Returnes redundancy of information Disadvantage servering of data or information can take extra time as compared to other methods. Basics of ERM & Normalization Entity Relationship Modeling the logical relationships of objects in order to create a database. Cleation of El diagram is the first step in designing a data base. 3) An ER model is a graphical representation Which contains entities or items, relationships among the entities cand attributes of the entities and relationships. 3 basic elements in El mode -1) Entitle: Any objects or items 2) Attributes: The attribute is nothing but a 3) Relationships: The links between various entities weak Entity - If an entity depends on another ea existing entity then it is called of weak. Module Sub Madule weak entity

Attributes Represent properties or details of an entity. Represented by Ovel A ime is used to link an attribute to its cutify. / university University 1d Location unversity name Multivalued attribute [Student] - (Phone No) more than 1 (ROUND dingle valued. Relationships The associational two or more entitles is Called as a geletionship. Each helationship has a name, seet of entities that participate in it, a degree and a egralinglity Retio Degree -- No. of cutities that partripate int that selectionship. eg. Lecturer teams students (degree = 2) - relationship Belong Student. university Cardinality Rabio lectiver teams many students

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Henry to Many (East student take many making To more lik diggram we need to identify -FLATIE, APPINEUR. Relationships, Cardinality varios Nosmalization The dates are design technique that is used to organize lables to a manner that reduce redundary and dependency of dats is could Mosmalization It is a scientific process of decomposing complex tables into smaller & essily manageable tobus. Advantages Smaller simply and well-smutured selections Avoids duplication of dato, reduce sedundany Provide dats integrity Helps to avoid update anomalies. That is, it Isolate data so test additions, deletion of modification of a field can be made in first one tobes. The change are then propagated to the hest of the database through defined relationships Laved sprage space Irimany Kuy confosite key one attobute, you can get another attribute

ag- Students of Name 11 deferant is dependent

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and the last 1st Normal form To move from unnormalized form to 1st normal form all multide valued attributes (could repeating The pr) should be removed Jack column in a table stourd Contain single Yalue Equi record needs to be unique g nd Moran of Form Partial functional dependences must be slunowed I attribute of a table are combined to form a composite key, then the wonkey attributes of that table must deplud on both the attributes of the composite key. 2 NFRules. Table should be in INF The single column must be used as Phinany Key Foreign Key - sefes to the primary key of another table. It helps to connect too tables. It need not have to be unique it required for referencial integrity. Transitive functional dependencies when changing a non-key column might cause any of the other non-key columns to change, it is called TFD. by Lechenes kneering is dependend on Designetion

