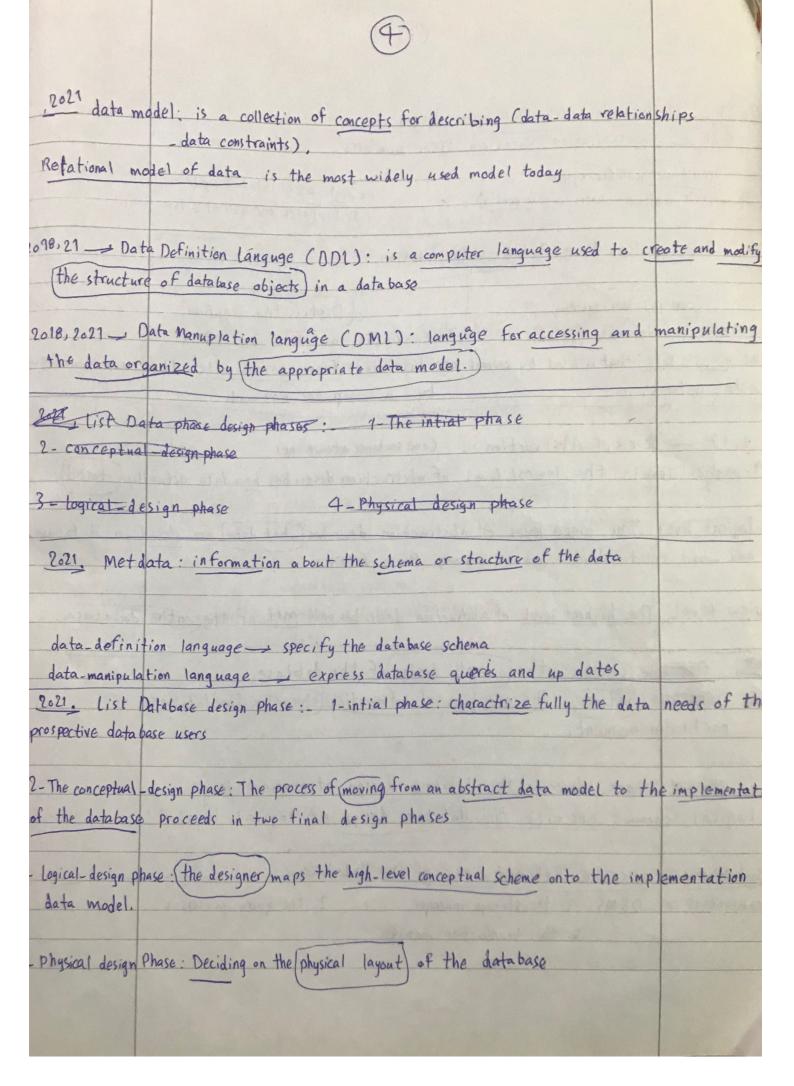
file-based sys: collection of data stored in an orderly manner in (permnant) file
file-based sys: collection of data stored in an orderly manner
permnant file
(1,11) itsiol = file-based sys Disadvantges: - (and sentence on each one)
a Colifical langua and in consistency: various copies at the time same
longer agree (inconsistent
2 - Difficulty in accessing Data: need to write new program to carry out each new task.
Z-Difficulty in accessing Duty
3-Data isolation: writing newapp programs to retrive the appropriate data is difficu
5-Data isolation: writing newapp programs
4- integrity problems: Hard to add new constraints or change existing ones
5-Atomicity of updates: failures may leave database in inconsistent state with partial updates carried out
updates carried out
الماقينات عالام
6- concurrent access by multiple users : uncontrolled concurrent accesses can lead to inconsistence
2- concurrent access by martifact acces
7- sorusitu problems
7-security problems
database approach: new approach in managing large amounts of orgnizational information
and we use it to solve diffculties from using file-based system

3				
2021 - classification of Data Base system				
2021 Classification Based on User numbers				
multiuser 1 to the sales system				
(It supports multiple users concurreently) (It supports one user at a time)				
2021 Based on DataBase Distribution				
(centralized) systems (Distributed) system				
- DBMs and database stored The actual database and DBMS				
at a single site that is used by several are distributed from various sites that are se				
other systems. by a computer network				
2017 — levels of Abstraction: _ (one sentence at each one) 1-physical level: the lowest level of abstraction describes how data actually store 2-logical level: The higher level of abstraction describes what data are stored in described what relationships exist among those data. 3-view level: The highest level of abstraction describes only part of the entire database.				
and the second s				
Total Schema: the overall design of the database				
particular moment.				
physical schona: describe the database design at physical level				
logical schema: describe the database design at logical level				
subschemas: describe different views of the database				
components of DBMs: 1- the storage manager 2- the query processor 3- the transaction manager				
I was about all to be a super all as				



2021, 2019, 2018, 17 - Explain distinctions among terms primary Key, anadite Key and super Key? Super Key: set of one or more attributes that taken collectively allow all sto identify uniquely a tuple in the relation
Canadite Key: is a simple (one attribute) or composite (more attributes) Key that is unique and minimal diffy
* super Key is canadite Key; f it's minimal * one of the canadite Key is selected to be the primary Key
Primary Key: Is a canadite key selected by the database designer to used as an identifying mechanism for the relation. it must uniquely identify tuples in a table and not null
Foreign Key: an attribute in table that references primary Key in another table and both of them must be the same data type
2019 - Database schema: the logical design of the database 2019 - Database Instance: A snapshot of the data in the database at a given instant time.
Relation schema: The logical design of the relation. the name of the relation and set of e
attributes for that relation. 2021, 18 Define cardinality and list types of cardinality for binary relationship?
Cardinality: expresses the maximum number of entites that can be associated with another entity via relationship.
types: 1- one to one 2- one to many 3- many to one 4- many to many

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		(A) West of the second		
Participation	: expressor 11			
another entity v	ia relationship	number of entites that can be associated with		
with Time Time	AN ALLEY LA	A CONTRACTOR OF THE PARTY OF TH		
-> 2018 Total	participation: every enti	ity in the entity set participates in at least one		
relationship in	the relationship set.	authorish as right a distance of the		
		and the the		
valoria p	articipation: some entites	may not participate in any relationship in the		
e i a i ions n	ip she set.	Landwins St. 31 Max all home as mak mous		
2019 Explain di	fference between wea	K and strong entity?		
Fittali na to la	strong Entity	weak entity		
Key	- always have primary Ke	y -it uses a foreign key combined with		
		its existence depend on the existence of		
Dependency	doesn't depend on other	identifying entity set		
Participation	may or may not patient	a always participates in entity relationships		
stant reade a ta	participate in entity	at to tologon A consumption		
Smit	relationships	111 1 11 protonale		
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