1900300130018 Assignment +1 [DBMS] What traditional file System approach? How it is different fown the database approach? The term 'File based System approach' suffers to the situation where clata ans Is stored in one or more separate Computer files. Computer programs access fask required by the business tach program, or sometimes a sulated set of program, is called a computer app-troach. Traditional Limitation of tile approach · Data duffication · Dala Inconsistency Diffcult to implement data security. Traditional file System affroach is different from the database approach

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Traditional File System Database Approach the data Siles in Computer system 1) Provides a systematic way to occur upaate 1 delete data 2) & Doesh't support multi 2) It suffort multi user access. 3) It has low data consistency 3) It has high data consistency 4) It is highly secured 4) It is not secured 5) Data redundany is high 5) Data redundancy Es low B) It is highly costly. 6) It is cheap 7) It takes less searching dime It takes more searching time What is Data Independence? Discuss logical and physical data Independency by Gening their examples? Data Independence sufers Characterstics of being able to modify the Schema at one level of the database System without requiring to change the schema at the neut higher level.

It helps you to keep data separated from all perograms that make use of it. Dala Indépendence can be explained using 3 Schema Auchitecutre. External level E logical Data Independence logical linel 2-Physical Data Independence Physical level Databan Types of Deita Independence 1) logical Data Indépendence 2) Physical Data Indépendence

A Logical Data Independence It sufers to the characteristics of being able to change the conceptual Schema without having the Change of External Schema · Logical clata Independence is use to separate external lul from the Conceputal view. Ex> Merging the two Record into One * Physical Data Indefendence a It can be defined as the capacity to change the Internal Schema we thank having to change the Conceptual Schema Physical Data Independence is used to separate conceptual level from the Internal level Ex+ Using a new storage dens ce like Hard disk or magnitic Tafes. 23 Défferentiate Schema and Instance Schema Instance 1) It is the Overall 1) It is the collection of information stored describtion of the

a farticular moment Schema 2) Schema is same for whole clatabase 2) Data in instance Can be changed Using addition, deletion, updation 3) It does n't change 3) It Changes Frequently. 4) It defines the 4) It is the set of information stoled cut a particular time basic Structure of the glatabase (i.e how the data will be Stored in the database Role of application programmer and DBA. I plication programmer and Q4 Application perogrammer find sout the requirement of lend users, after that they clevelof all the requirements for canned towns Cation through which they can mean all the requirement of users. my They Inplement this analysis as a prog-

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| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | nam they are software engineers. |
| | DBA |
| 0 | It is responsable for creating, modifying a maintaining but Database |
| | DBA specify the entural new of the user |
| 0 | Maintains the Integrity of the Database |
| | It is Also responsable for clefining providure to recover the database from failure due to thiman errier, natural of hardware causes with minimal loss of data |
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