DBMS

pre-Lab

- 1. Jack has to select database management systems over file based systems.

 The reasons are:
 - I dess redundancy in the case of database approach and the data remains consistent
 - 2. Data security It is easier to apply access constriants in database systems so that only authorized user is able to access the data
 - 3. Easy access to data Database systems manages data in such a way so that the data is easily accessible with fast response times.
 - 4. Flexible Database systems are more flexible than file processing systems
 - 5. Integrity can be enforced by restricting unauthorized access
- 2. Data Inconsistency is a situation where there are multiple tables within a database that deal with same data but may receive it from different inputs. The main hazard of Data inconsistency is that these file might duplicate personal data like address.

3. The main difference between databases is that centralized works with a single database and on the otherhand distributed database works with multiple databases.

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Addition of Anti

- 4. Keys are used to establish Identify any relationship between tables and also to uniquely identify any record (or) now of data inside a table classifications:
 - 1. candidate key set of keys that is minimal and can be uniquely identify any data now in the table
 - 2 primary, key: It is selected from one of the condidate keys and becomes the identifying key of a table. It can uniquely identify any data now of the table.
 - 3. Superkey: Superkey is superset of primary bey. It contains set of attributes including primary bey which can uniquely identify any data now in the table

- 4. composite key: If any single attribute of a table not capable of being the key, then we combine two or more attribute to form a key. This is known as composite key The product of the first first of
- 5 secondary key: only one of the candidate keys is selected as primary key. The rest of them are known as secondary beys.

190031187 Ni V-Padhaknshna

Post - dab

1. Weak Entity set:

An entity set that does not contain sufficient attributes to uniquely identify is weak entity set.

primary key does not exits for week entity set

2. pata Independence

It is the ability to make changes to data characteristics without having to make changes to the programs that access the data.

3. Attribute :

It is a specification that defines a property of an object element (or) file.

Types of attributes are

(1) simple attributes

Cannot be further divided into simpler attributes

Ex: 1d no of a student

- can be divided into simpler attributes

 Fir DOB of students
- (3) single valued Attributes

 can take only a single value for each entity instance
- (4) Multi Valued Attributes

 can take multiple values for each entity

 instance
- (5) Perived Attributes

 That can be calculated based on other attributes

 Fri: Age
- 4. Difference between entity type & entity set
 Entity type is a collection of similar

 entities. An entity set is a collection of

 entities of an entity type at a point of time
- 5. Difference blw primary key & Unique key

 primary key

 cannot be null

 only one primary key can be present

 in a table

Unique key

N-v-Padha brishna

can be null Multiple unique beys can be present in a table