## Database Management System Spring - 2022 CID - 108956 Assignment #1 Safiullah Rehmani 12413

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Ovestion 18-

(a) How database management systems can be a dvantage ous in the following manness:

· Control of Data Redundancy:
If the deta is stored in a database and we set a condition that the data in a Particular table cannot be repeated. So if the data is repeated, Our database will inform us that the data is being duplicated.

· Data Consistancy:
It means the requirement of a particular given database. For a data to be consistent, data written in the database must be valid according to all defined rules including constraints, cascades or any other set of rules.

· More information from the some !-

It can only be ensured in detabase because there is no deta redundancy. All data appears to be consistent across the database and the data is some for all usess viewing the database.

· Amount of datas-

DB helps to create an environment in which end users have better access to more and better-marged data.

• Sharing of Datas - Database also allows to share data among other usess and it helps the user to interact under an environment.

· Improved Data Integritys-It helps when it has proper volidation system. And the database is being backed-up.

• Improved Secusity 8-DB allows only its authorized person the database, like some one who is the admin of an organization called DBA.

in Database. Like you can constrain or restrict the database,

that users can insert, delete on update in the database.

Processing large amounts of data because it is optimised for on such operations.

SI. Balance of Conflicting Requirements 3-

the Productivity because programmess are freed up for other tasks.

Improved Data accessibility and responsivenesso-

by having an integration in the database approach, data accessing a can be crossed. This will provide more funtionally and better details are services to the usess.

I Increased Productivity:

Implementing database in any organization will always result in increased productivity for the users

· Improved data independence and maintenance 3-It can be explained by 3-schema architectuse. I External Level. Topologica to mounts. 2) Logical Level.

3) Physical Level.

in de la de · Increased Concurrency: The is the ability of database to allow.

· Improved backup and recovery services or

It refers to the various stratigies and operations involved in protecting your database 1 Augusta and the second and the sec against data loss and retrieval. 

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