



Check your knowledge

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Multiple choice questions

- Duplication of data at several places is called as

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1. Data Inconsistency
 2. Data Redundancy
 3. Data Isolation
 4. None of the above



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Problems with data redundancy

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Problems with data redundancy



- Same information is stored in more than one file.
- For example: Data between the Payroll and the Personnel department is duplicated.
- Change of address reflected only in Personnel and not in Payroll.
- Pay slips would be sent to the wrong address.

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Multiple choice questions

- Data Redundancy increases the cost of storing and retrieving data.

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1. ☒ True
 2. ☐ False



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Multiple choice questions

- If in redundant file common fields are not matching then it results in_____.
1. Data Redundancy
 2. ☒ Data Integrity Problem
 3. Data Isolation
 4. Data Inconsistency



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Multiple choice questions

- When multiple users try to access the same piece of data at same time it is called
 1. Data integrity
 2. Concurrency
 3. Data independence
 4. None of these



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Summary- Basic Definitions

- **Database:**
 - A collection of related data.
- **Data:**
 - Known facts that can be recorded and have an implicit meaning.
- **Mini-world:**
 - Some part of the real world about which data is stored in a database. For example, student grades and transcripts at a university.
- **Database Management System (DBMS):**
 - A software package/ system to facilitate the creation and maintenance of a computerized database.
- **Database System:**
 - The DBMS software together with the data itself. Sometimes, the applications are also included.

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