**10 Advantages of DBMSs**

**Learning goal: understanding advantages of DBMSs**

**Carry out some research into advantages of DBMSs and complete the following table.**

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|  | **Advantage** | **Description** |
| **1** | Data Redundancy Solution | In a DBMS data redundancy is eliminated or at least greatly reduced. Data Redundancy occurs when data is unnecessarily duplicated in various places. |
| **2** | Data Integrity | DMBS systems ensure integrity of the data (accuracy, completeness and reliability) is kept at a high level. Ensures lack of variation between two instances of a record, ensuring information is error-free. |
| **4** | Data Security | DBMS systems provide a strong framework to protect data privacy and security. DBMS ensures that only authorized users have access to data and there is a mechanism to define access privileges. |
| **5** | Data Abstraction? | Many users can access data at the same time without causing conflicts. |
| **6** | Data Standards | DBMS can ensure the upkeep of standards such as format of data, document standards etc. |
| **7** | Data Consistency | If a database is properly designed then Data inconsistency can be greatly reduced hence minimizing data inconsistency. Data inconsistency occurs between files when different versions of the same data appear in different places. |
| **8** | Better data integration | Due to the Database Management System we have an access to well managed and synchronized form of data thus it makes data handling very easy |
| **9** | Faster data Access | Helps to produce quick answers to database queries thus making data access faster and more accurate. For example, to read or update the data |
| **10** | Simplicity | Gives a simple and clear logical view of data. Many operations like insertion, deletion, or creation of files or data are easy to implement. |