What is the difference between file system and DBMS

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| File system | DBMS |
| A file system is software that maintains and organises files on a computer's storage media. | A database management system (DBMS) is software that manages databases. |
| A file system may include redundant data. | There is no redundant data in DBMS. |
| It does not provide data backup or recovery in the event that it is lost. | It provides data backup and recovery, even if the data is lost. |
| In the file system, there is no efficient query processing. | In DBMS, efficient query processing is available. |
| It is less complicated than a database management system. | When compared to the file system, it is more difficult to handle. |
| The file system has a lower level of data consistency. | Because of the normalisation procedure, the data is more consistent. |
| In comparison to DBMS, file systems offer less security. | When compared to file systems, DBMS provides additional security mechanisms. |
| It is less expensive than a database management system. | Its price is higher than that of a file system. |
| There is no such thing as data independence. | Data independence exists in DBMS. |
| Data can only be accessed by one user at a time. | Data can be accessed by multiple people at the same time. |