

Database Vs File

<u>S.no</u>	<u>Parameter</u>	<u>Database</u>	<u>File</u>
1	Definition	Database is the collection of related data at a centralized location.	A data file is a collection of related records stored on a storage medium such as a hard disk or optical disc.
2	File	Tables are files	Files are files
3	Redundancy	Less {duplicity of data is avoided}	More {Same data is used in various file}
4	Inconsistency	Less {updating process is easy due to less redundancy}	More {updating process is difficult due to more redundancy}
5	Size	Large. {Hold large amount of data in a single database}	Small. {having information of different field in different file}
6	Integrity	More	Less
7	Sharing of data	Easier due to centralized system	Data sharing is complex As file is not centralized
8	Enforcing Standards	Easier {single structure is used for stored all data}	Difficult {different structure is used for different file}

9	<i>Backup and recovery</i>	<i>Possible</i>	<i>Not possible</i>
10	<i>Implementing Security</i>	<i>Easier as Only Single database File is available to impose password</i>	<i>Difficult as various file require password separately</i>
11	<i>Complexity</i>	<i>Highly complex as special software and hardware needed</i>	<i>Simple and does not need addition software</i>
12	<i>Security Breach</i>	<i>Less secure {if passcode of database leaks then all the information of the system will be disclosed}</i>	<i>More secure as we have different passcode for different file containing information of different field</i>
13	<i>Training</i>	<i>Training is necessary {Experts are needed to operate the special DBMS software}</i>	<i>Not any training is needed</i>
14	<i>Memory allocation</i>	<i>Needs more memory</i>	<i>Needs less memory</i>
15	<i>Cost</i>	<i>Expensive {additional hardware and software like DBMS in needed} e.g. Oracle, MIOS. etc. Training is needed which further increase cost</i>	<i>Cheaper {No training, no special hardware and no special software is needed. }</i>
16	<i>Expertise</i>	<i>Needed</i>	<i>Not Needed</i>