Need for database

A database is a collection of data, usually stored in electronic form. A database is typically designed so that it is easy to store and access information.

- **Manages large amounts of data**: A database stores and manages a large amount of data on a daily basis. This would not be possible using any other tool such as a spreadsheet as they would simply not work.

- **Accurate**: A database is pretty accurate as it has all sorts of built- in constraints, checks etc. This means that the information available in a database is guaranteed to be correct in most cases.

- **Easy to update data**: In a database, it is easy to update data using various Data Manipulation languages (DML) available. One of these languages is SQL.

- **Security of data**: Databases have various methods to ensure security of data. There are user logins required before accessing a database and various access specifiers. These allow only authorised users to access the database.

- **Data integrity**: This is ensured in databases by using various constraints for data. Data integrity in databases makes sure that the data is accurate and consistent in a database.

- **Easy to research data**: It is very easy to access and research data in a database. This is done using Data Query Languages (DQL) like SQL which allow searching of any data in the database and performing computations on it.