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CSE-3330-001

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Assignment 1

1. You would want to use a database if you want to share data to multiple users quickly and easily. You would also want to use a database if you would want to restrict users from accessing or modifying certain data. Using files might be advantageous over databases if the data is not going to be modified or shared.

2. **Database Administrators** (**DBA**) maintain a database and have full authorization to all data within a database. Their responsibilities are: Authorizing access to the database, coordinating and monitoring its use, and acquiring software and hardware resources.

3. **Database Management System (DBMS)**: Collection of programs that enables users to create and maintain a database.

**Database**: Collection of related data.

**Meta-data**: Database definition or descriptive information.

**Persistent object**: An object written in an object-orientated language that is stored in a database.

**Transaction**: One unit of work performed within a database.

4. **Casual end users** access data by entering different queries from the terminal end.

**Naïve end users** use developed applications with databases and have no knowledge of the database

**Sophisticated end users** are expected to identify potential harzards of databases.

**Standalone end users** maintain personal databases.

5. Difference between a database and an information retrieval system is that a database can modify and remove data along with retrieving data. Information retrieval systems only retrieve data.

6. Student\_number in STUDENT and Student\_number in GRADE\_REPORT

Course\_number in COURSE and Course\_number in SECTION

Section\_identifier in SECTION and Section\_identifier in GRADE\_REPORT

Course\_number in SECTION and Course\_number in PREREQUISITE