

Exercises

1. Describe the concept of program-data Independence in DBMS and traditional file processing in application program.
2. Describe the role of concurrency control in DBMS. Support your answer with an example of transaction in a multiuser environment.
3. Specify all the relationships among the records of the database shown in Figure 1.2
4. Give an additional view that may be needed by other user groups for the database shown in Figure 1.2
5. Database manipulation involves querying and updating. Can you provide some examples of queries and updates?
6. Consider Figure 1.2. If the name of the 'CS' (Computer Science) Department changes to 'CSSE' (Computer Science and Software Engineering) Department and the corresponding prefix for the course number also changes, identify the columns in the database that would need to be updated.

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