

**CHAPTER 1: DATABASES AND DATABASE USERS****Answers to Selected Exercises**

**1.8** - Identify some informal queries and update operations that you would expect to apply to the database shown in Figure 1.2.

**Answer:**

- (a) (Query) List the names of all students majoring in Computer Science.
- (b) (Query) What are the prerequisites of the Database course?
- (c) (Query) Retrieve the transcript of Smith. This is a list of <CourseName, SectionIdentifier, Semester, Year, Grade> for each course section that Smith has completed.
- (d) (Update) Insert a new student in the database whose Name=Jackson, StudentNumber=23, Class=1 (freshman), and Major=MATH.
- (e) (Update) Change the grade that Smith received in Intro to Computer Science section 119 to B.

**1.9** - What is the difference between controlled and uncontrolled redundancy?

**Answer:**

Redundancy is when the same fact is stored multiple times in several places in a database. For example, in Figure 1.5(a) the fact that the name of the student with StudentNumber=8 is Brown is stored multiple times. Redundancy is controlled when the DBMS ensures that multiple copies of the same data are consistent; for example, if a new record with StudentNumber=8 is stored in the database of Figure 1.5(a), the DBMS will ensure that StudentName=Smith in that record. If the DBMS has no control over this, we have uncontrolled redundancy.

**1.10** - Specify all the relationships among the records of the database shown in Figure 1.2.

**Answer:**

- (a) Each SECTION record is related to a COURSE record.
- (b) Each GRADE\_REPORT record is related to one STUDENT record and one SECTION record.
- (c) Each PREREQUISITE record relates two COURSE records: one in the role of a course and the other in the role of a prerequisite to that course.

**1.11** - Give some additional views that may be needed by other user groups for the database shown in Figure 1.2.

**Answer:**

# Manual Solution Ramez Elmasr

**Jiyuan Zhang**



## **Manual Solution Ramez Elmasri:**

*Fundamentals of Database Systems* Ramez Elmasri, Sham Navathe, 2007 This edition combines clear explanations of database theory and design with up to date coverage of models and real systems It features excellent examples and access to Addison Wesley s database Web site that includes further teaching tutorials and many useful student resources Advances in Conceptual Modeling - Theory and Practice John F. Roddick, Richard Benjamins, Samira Si-Said Cherfi, Roger Chiang, Ramez Elmasri, Hyoil Han, Martin Hepp, Miltiadis Lystras, Vojislav Misic, Geert Poels, Il-Yeol Song, Christelle Vangenot, 2006-11-21 This book constitutes the refereed joint proceedings of seven international workshops held in conjunction with the 25th International Conference on Conceptual Modeling ER 2006 in Tucson AZ USA in November 2006 The 39 revised full papers presented together with the outlines of three tutorials were carefully reviewed and selected from 95 submissions

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