

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:

(a) A view that groups all the students who took each section and gives each student's grade. This may be useful for printing the grade report for each section for the university administration's use.

Database System Ramez Solution Manual

M Lipman



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Fundamentals of Database Systems Ramez Elmasri, Sham Navathe, 2004 This is a revision of the market leading book for providing the fundamental concepts of database management systems Clear explanation of theory and design topics Broad coverage of models and real systems Excellent examples with up to date introduction to modern technologies Revised to include more SQL more UML and XML and the Internet **Database Management Systems Solution Manual** Raghu Ramakrishnan, **Conceptual Modeling - ER 2002** Stefano Spaccapietra, Salvatore March, Yahiko Kambayashi, 2003-06-30 For more than 20 years the series of Conceptual Modeling ER conferences has provided a forum for research communities and practitioners to present and change research results and practical experiences in the elds of database design and conceptual modeling Throughout the years the scope of these conferences has extended from database design and speci c topics of that area to more u versal or re ned conceptual modeling organizing originally weak or ill structured information or knowledge in more cultured ways by applying various kinds of principles abstract models and theories for di erent purposes At the same time many technically oriented approaches have been developed which aim to facilitate the implementation of rather advanced conceptual models Conceptual modeling is based on the process of conceptualization and it is the core of system structuring as well as justi cation for information systems development It supports and facilitates the understanding explanation pred tion and reasoning on information and knowledge and their manipulation in the systems in addition to understanding and designing the functions of the systems The conceptualization process aims at constructing concepts relevant for the knowledge and information system in question Concepts in the human mind and concept descriptions in computerized information systems are quite di erent things by nature but both should be taken into account in conceptual modeling Usually concept descriptions are properly observed but concepts in the human mind and their properties are often neglected quite carelessly Proceedings of the IEEE First International Workshop on Systems Management ,1994
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