Fundamentals of Database Systems | (5th Edition)

Chapter 1, Problem 14E   📱   🔖 Bookmark   Show all steps: ON

Step-by-step solution

Step 1 of 2 ⌃

a) The following columns need to be updated when the name of the department changed along with the course number.

Table	Columns
STUDENT	Major
COURSE	Course_number, Department
SECTION	Course_number
PREREQUISITE	Course_number, Prerequisite_number

In the STUDENT table, Major has to be updated. In the COURSE table, Course_number and Department should be updated. In the SECTION table, Course_number should be updated. In the PREREQUISITE table, Course_number and Prerequisite_number are to be modified.

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Step 2 of 2 ⌃

b) The columns of the tables are split as follows:

Table	Column	Split columns
COURSE	Course_number	Course_dept, Course_number
SECTION	Course_number	Course_dept, Course_number
PREREQUISITE	Course_number	Course_dept, Course_number
PREREQUISITE	Prerequisite_number	Prerequisite_dept, Prerequisite_number

The tables are as follows after restructuring:

$COURSE(Course\_name, Course\_dept, Course\_number, Credit\_hours, Department)$

$SECTION(Section\_identifier, Course\_dept, Course\_number, Semester, Year, Instructor)$

$PREREQUISITE(Course\_dept, Course\_number, Prerequisite\_dept, Prerequisite\_number)$

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For this problem:
Chapter 1, Problem 14E

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Recommended solutions for you to review

Chapter 3, Solution 11RQ

Recursive relationship: If there is a relationship between the two entities of the similar type is called as recursive relationship. • The relationship between occurrences of two different entities is termed as recursive relationship

See solution

Chapter 10, Solution 28E

a) 1.) A->B does not hold good in current state of relation as attribute B has two values corresponding to value 10 of attribute A. 2.) B->C: this relation can hold good in current relation state. 3.) C->B does not hold good in current...

See solution