

CHAPTER 3: THE RELATIONAL DATA MODEL AND RELATIONAL DATABASE CONSTRAINTS**Answers to Selected Exercises**

3.11 - Suppose each of the following Update operations is applied directly to the database of Figure 3.6. Discuss all integrity constraints violated by each operation, if any, and the different ways of enforcing these constraints:

- (a) Insert < 'Robert', 'F', 'Scott', '943775543', '21-JUN-42', '2365 Newcastle Rd, Bellaire, TX, M, 58000, '888665555', 1 > into EMPLOYEE.
- (b) Insert < 'ProductA', 4, 'Bellaire', 2 > into PROJECT.
- (c) Insert < 'Production', 4, '943775543', '01-OCT-88' > into DEPARTMENT.
- (d) Insert < '67678989', null, '40.0' > into WORKS_ON.
- (e) Insert < '453453453', 'John', M, '12-DEC-60', 'SPOUSE' > into DEPENDENT.
- (f) Delete the WORKS_ON tuples with ESSN= '333445555'.
- (g) Delete the EMPLOYEE tuple with SSN= '887654321'.
- (h) Delete the PROJECT tuple with PNAME= 'ProductX'.
- (i) Modify the MGRSSN and MGRSTARTDATE of the DEPARTMENT tuple with DNUMBER=5 to '123456789' and '01-OCT-88', respectively.
- (j) Modify the SUPERSSN attribute of the EMPLOYEE tuple with SSN= '999887777' to '943775543'.
- (k) Modify the HOURS attribute of the WORKS_ON tuple with ESSN= '999887777' and PNO= 10 to '5.0'.

Answers:

(a) No constraint violations.

(b) Violates referential integrity because DNUM=2 and there is no tuple in the DEPARTMENT relation with DNUMBER=2. We may enforce the constraint by: (i) rejecting the insertion of the new PROJECT tuple, (ii) changing the value of DNUM in the new PROJECT tuple to an existing DNUMBER value in the DEPARTMENT relation, or (iii) inserting a new DEPARTMENT tuple with DNUMBER=2.

(c) Violates both the key constraint and referential integrity. Violates the key constraint because there already exists a DEPARTMENT tuple with DNUMBER=4. We may enforce this constraint by: (i) rejecting the insertion, or (ii) changing the value of DNUMBER in the new DEPARTMENT tuple to a value that does not violate the key constraint. Violates referential integrity because MGRSSN='943775543' and there is no tuple in the EMPLOYEE relation with SSN='943775543'. We may enforce the constraint by: (i) rejecting the insertion, (ii) changing the value of MGRSSN to an existing SSN value in EMPLOYEE, or (iii) inserting a new EMPLOYEE tuple with SSN='943775543'.

(d) Violates both the entity integrity and referential integrity. Violates entity integrity

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Database Support for Workflow Management Paul Grefen, Barbara Pernici, Gabriel Sánchez, 2012-12-06 Database Support for Workflow Management The WIDE Project presents the results of the ESPRIT WIDE project on advanced database support for workflow management The book discusses the state of the art in combining database management and workflow management technology especially in the areas of transaction and exception management This technology is complemented by a high level conceptual workflow model and associated workflow application design methodology In WIDE advanced base technology is applied like a distributed computing model based on the corba standard The usability of the WIDE approach is documented in this book by a discussion of two real world applications from the insurance and health care domains Database Support for Workflow Management The WIDE Project serves as an excellent reference and may be used for advanced courses on database and workflow management systems

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