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QUESTION 1

Which of the following ACID properties requires that a transaction be executed in its entirety or not at all?

- A. Durability
- B. Consistency
- C. Isolation
- D. Atomicity

Correct Answer: D

QUESTION 2

What is the highest normal form of the relation(s) shown in the exhibit?

Emp_ID	Emp_Name	Dept_ID	Dept_Name	Mngr_ID	Mngr_Name
001	Lee	25	R & D	12	Ames
002	Smith	35	Marketing	22	Yee
003	Perez	25	R & D	12	Ames

Employee Relation

- A. Third normal form
- B. Second normal form
- C. Boyce-Codd normal form
- D. First normal form

Correct Answer: D

QUESTION 3

Which three pieces of information did E. F. Codd describe as necessary to retrieve a data value from a relational database?

- A. Attribute, domain, and tuple
- B. Entity, relation name, and domain
- C. Table name, primary key, and entity
- D. Attribute, relation name, and primary key

Correct Answer: D

QUESTION 4

Which term best describes one or more database operations that are executed as a single unit?

- A. Update
- B. Transaction
- C. Procedure
- D. Singleton

Correct Answer: B

QUESTION 5

Consider the Information Engineering diagram shown in the exhibit for a building management company. Referential integrity must be maintained such that a building cannot be deleted when it has residents. Building_ID, R_ID, Room_Count and Room_Num are integer numbers, whereas Bldg_Name, Location and Res_Name are all represented by variable-length strings with a maximum of 20 characters. Which SQL statement best implements the relations shown in this diagram?



- A. CREATE TABLE BUILDING (Building_ID INTEGER NOT NULL PRIMARY KEY, Bldg_Name VARCHAR (20), Location VARCHAR (20), Room_Count INTEGER); CREATE TABLE RESIDENT (R_ID NOT NULL PRIMARY KEY, Room_Num INTEGER, Res_Name VARCHAR (20), Building_ID INTEGER NOT NULL, FOREIGN KEY Building_ID REFERENCES RESIDENT (Building_ID) ON DELETE NO CHECK);
- B. CREATE TABLE BUILDING (Building_ID INTEGER NOT NULL PRIMARY KEY, Bldg_Name VARCHAR (20), Location VARCHAR (20), Room_Count INTEGER); CREATE TABLE RESIDENT (R_ID NOT NULL PRIMARY KEY, Room_Num INTEGER, Res_Name VARCHAR (20), Building_ID INTEGER NOT NULL, FOREIGN KEY Building_ID REFERENCES BUILDING (Building_ID) ON DELETE NO CHECK ON UPDATE CASCADE);
- C. CREATE TABLE BUILDING (Building_ID INTEGER NOT NULL PRIMARY KEY, Bldg_Name VARCHAR (20), Location VARCHAR (20), Room_Count INTEGER); CREATE TABLE RESIDENT (R_ID NOT NULL PRIMARY KEY, Room_Num INTEGER, Res_Name VARCHAR (20), Building_ID INTEGER NOT NULL, FOREIGN KEY Building_ID REFERENCES BUILDING (Building_ID) ON DELETE NO CHECK ON UPDATE CASCADE);
- D. CREATE TABLE BUILDING (Building_ID INTEGER NOT NULL PRIMARY KEY, Bldg_Name VARCHAR (20), Location VARCHAR (20), Room_Count INTEGER); CREATE TABLE RESIDENT (R_ID NOT NULL PRIMARY KEY, Room_Num INTEGER, Res_Name VARCHAR (20), Building_ID INTEGER NOT NULL, FOREIGN KEY Building_ID REFERENCES BUILDING (Building_ID) ON DELETE NO CHECK ON UPDATE CASCADE);

Correct Answer: C

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