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CIW V5 Database Design Specialist

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QUESTION 1

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

QUESTION 2

Your enterprise has created a database and database application. The testing phase for the project has started. Which of the following best describes white-box testing of the projects software?

A. The database designer tests the software because he or she is able to make necessary changes to the underlying code for the software.

B. A user who has no knowledge of the softwares underlying code tests the software.

C. Someone other than the database designer tests the software. This person has no access to the underlying code and attempts to use the software only in ways not considered by the software designers.

D. A person tests the software and submits suggestions to the software\\'s underlying code. This person is someone other than the database designer, but has access to the softwares underlying code.

Correct Answer: D

QUESTION 3

What is a relational database domain?

A. A group of attributes

B. A set of permissible tuple values

C. A collection of related data items

D. A set of permissible attribute values

Correct Answer: D

QUESTION 4

Consider the Orders relation shown in the exhibit. Which of the following SQL statements would replace the value in the Sales_Rep_No column with 110 everywhere that Sales_Rep_No 108 is listed?

Order_No	Order_Date	Customer_No	Sales_Rep_No	Amount
2001	11-04-01	1001	108	24.89
2004	12-14-01	1004	210	126.99
2006	01-14-02	1008	187	1216.69
2009	01-15-02	1008	350	926.89
2012	02-02-02	1001	108	816.09
2015	02-10-02	1004	210	1818.19
2016	02-15-02	1006	109	678.99

Orders Relation

A. UPDATE Sales_Rep_No IN Orders SET(Sales_Rep_No = 110 WHERE Sales_Rep_No = 108);

B. UPDATE Orders SET Sales_Rep_No = 110 WHERE Sales_Rep_No = 108;

C. UPDATE Orders SET Sales_Rep_No = 110;

D. UPDATE Orders WHERE Sales_Rep_No = 108 SET Sales_Rep_No = 110;

Correct Answer: B

QUESTION 5

Consider the relation shown in the exhibit. Which of the following SQL statements would properly add information for a new employee?

Emp_ID	First_Name	Last_Name	Birth_Date
0001	Helen	Lee	12-05-75
0002	James	Smith	10-25-76
0003	Eliza	Perez	02-15-80
0004	Samuel	Hayes	11-07-71

Employee Relation

A. INSERT INTO Employee VALUES(0005, Tim, Bogart, 03-15-77);

B. INSERT INTO Employee(Emp_ID, First_Name, Last_Name, Birth_Date) VALUES(0004, Tim, Bogart, 03-15-77);

C. INSERT INTO Employee(Emp_ID, First_Name, Last_Name, Birth_Date) VALUES(0005, Tim, Bogart, 03-05-77);

D. INSERT INTO Employee(Emp_ID, First_Name, Last_Name, Birth_Date) VALUES(0005, Tim, Bogart, 03-05-77);

Correct Answer: D