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CIW V5 Database Design Specialist

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QUESTION 1

Which statement is used to define a named group of related tables, views, domains and other database objects?

A. CREATE ENTITY

B. CREATE INDEX

C. CREATE DOMAIN

D. CREATE SCHEMA

Correct Answer: D

QUESTION 2

Consider the table for an employee database shown in the exhibit. What is the cardinality of the table?

Emp_ID	First_Name	Last_Name	SSN	Birth_Date
0001	Helen	Lee	001-01-6001	12-05-75
0002	James	Smith	002-12-7002	10-25-76
0003	Eliza	Perez	003-21-9003	02-15-80
0004	Samuel	Hayes	004-04-1004	11-07-71

Employee Relation

B. 20

C. 4

D. 25

Correct Answer: C

QUESTION 3

Consider the following relation definitions: STUDENT(Student_Number: integer NOT NULL Name: variable length character string length 20) Primary Key Student_Number HOUSING(Housing_ID: integer NOT NULL Student_Number: integer NOT NULL Building: variable length character string length 25) Primary Key Housing_ID Foreign Key Student_Number References STUDENT(Student_Number) ON DELETE NO ACTION ON UPDATE CASCADE

What are the referential constraints for the relations defined in these relation definitions?

A. There is no relationship between changes in STUDENT(Student_Number) and HOUSING (Student_Number).

B. When STUDENT(Student_Number) is changed or deleted, this modification or deletion will automatically be reflected in HOUSING(Student_Number).

C. Modifications to HOUSING(Student_Number) are automatically reflected in changes to STUDENT (Student_Number), but deletions are not permitted.

D. Modifications to STUDENT(Student_Number) are automatically reflected in changes to HOUSING (Student_Number). For a deletion to occur from STUDENT(Student_Number), it must first occur in HOUSING(Student_Number).

Correct Answer: D

QUESTION 4

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 5

Consider the following relations shown in the exhibit. Which of the following SQL statements would return the

Customers2 relation from the Customers relation?

Cust_No	Cust_Name	Satisfaction_Rate	Sales_Office	Sales_Rep_No
1011	MicroWidget	75	Atlanta	1350
1012	MacroWidget	90	New York	7403
1013	Xyz Corp	78	Los Angeles	2457
1014	DayCo	95	Atlanta	1350
1015	DigiTech	85	Chicago	3303
1016	DataTech	92	Los Angeles	2457
1017	UniSort	81	New York	7403

Customers Relation

1015	DigiTech	85	Chicago	3303
1017	UniSort	81	New York	7403

Customers2 Relation

A. SELECT * FROM Customers WHERE Satisfaction_Rate = 90;

B. SELECT * FROM Customers WHERE Satisfaction_Rate IN (80 AND 90);

C. SELECT * FROM Customers WHERE Satisfaction_Rate >= 80 AND Satisfaction_Rate