Vendor: CIW

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Version: DEMO

QUESTION 1
Which relational algebraic operation is used to select specific columns (attributes) from a relation?

A. Union
B. Difference
C. Projection
D. Intersection

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.

Answer: D

QUESTION 3
Which security technique limits access by unauthorized users to parts of an enterprise database?

A. Views
B. Concurrency
C. Locking
D. Integrity controls

Answer: A

QUESTION 4
Which of the following ACID properties requires that a transaction be executed in its entirety or not all?

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

Answer: D

QUESTION 5
Consider the relations shown in the exhibit. Which of the following SQL statements would enter data from the Customers relation into the Atlanta_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

Cust_No	Cust_Name	Satisfaction_Rate	Sales_Rep_No

Atlanta_Customers Relation

A. INSERT INTO Atlanta_Customers
VALUES(
SELECT *
FROM Customer s
WHERE Sales_Office = Atlanta);
B. INSERT INTO Atlanta_Customers
SELECT *
FROM Customers
WHERE Sales_Office = Atlanta;
C. INSERT INTO Atlanta_Customers
SELECT Cust_No, Cust_Name, Satisfaction_Rate, Sales_Rep_No FROM Customers
WHERE Sales_Office = Atlanta;
D. INSERT INTO Atlanta_Customers
SELECT Cust_No, Cust_Name, Sales_Office, Sales_Rep_No FROM Customers
WHERE Sales_Office = Atlanta;

Answer: C

QUESTION 6
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

Answer: D

QUESTION 7
To create a view, what are the minimal privileges that a user must have for the relations used to make the view?

A. GRANT
B. REVOKE
C. SELECT
D. CREATE VIEW

Answer: C

QUESTION 8
Consider the relation shown in the exhibit. Which of the following SQL statements would return a relation that excludes all customers with a Satisfaction_Rate of less than or equal to 80 unless the Sales_Office is located in Atlanta?

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

A. SELECT *
FROM Customers
WHERE Satisfaction_Rate > 80
OR Sales_Office = Atlanta;
B. SELECT *
FROM Customers
WHERE Satisfaction_Rate <= 80
AND Sales_Office = Atlanta;
C. SELECT *
FROM Customers
WHERE Satisfaction_Rate >= 80;
D. SELECT *
FROM Customers
WHERE Satisfaction_Rate >= 80
AND NOT Sales_Office = Atlanta;

Answer: A

QUESTION 9
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);
```

Answer: C

QUESTION 10
Consider the relational database shown in the exhibit. What is the foreign key in this database?

ID	Last_Name	First_Name	Birth_Date	Dept_ID
0001	Vargas	Jose	09-15-70	032
0002	Jones	Elisa	12-12-55	042
0003	Chu	Helen	04-14-75	032
0004	Day	Danny	06-12-65	022

Employee Relation

Dept_ID	Dept_Name	Dept_Mngr	Dept_Ext
022	Sales	Reyes, Nancy	5432
032	Accounting	Yee, Cindy	1223
042	Finance	Ames, Joe	4675

Department Relation

A. Employee.Dept_ID
B. Dept_Mngr
C. Dept_Name
D. Department.Dept_ID

Answer: A

QUESTION 11
Which term best defines a database system in which data records are stored with no structured relationships between the records?

A. Flat-file database
B. Relational database
C. Distributed database
D. Object-oriented database

Answer: A

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