

1D0-541

CIW

CIW v5 Database Design Specialist

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QUESTION: 1

With regard to databases, what is normalization?

- A. The process of reducing the cardinality of a relation
- B. The process of organizing and refining relations
- C. The process of duplicating data to reduce the number of tables
- D. The process of limiting data stored in a table to a specific range of values

Answer: B

QUESTION: 2

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

Answer: D

QUESTION: 3

What is a virtual table?

- A. A virtual table is a relation created as the result of data manipulation; it exists only in computer memory, and is not a permanent part of the database.
- B. A virtual table is a relation stored in the database; it is used when multiple users access the same relation in a database.
- C. A virtual table is a relation derived from the database data dictionary; it contains metadata about a base relation. A virtual table is a relation derived from the database? data dictionary; it contains metadata about a base relation.
- D. A virtual table is a relation that consists of primary and foreign keys for a particular set of relations in a database.

Answer: A

QUESTION: 4

Your enterprise has reached the conceptual design phase for a database project. What is the desired goal at the end of this design phase?

- A. A set of normalized relations
- B. A reviewed entity-relationship (ER) model
- C. An entity-relationship (ER) model with no redundant data
- D. A set of denormalized relations

Answer: B

QUESTION: 5

In which phase of database design do you identify entities, attribute domains, and relationships?

- A. Logical
- B. Physical
- C. Application
- D. Conceptual

Answer: D

QUESTION: 6

Consider the Dept1_Parts and Dept2_Parts relations shown in the exhibit. Which of the following SQL statements would create a set difference of the two relations with the widest variety of Structured Query Language dialects?

Part_ID	Part_Name	Description	Supp_ID
0312	bolt	hexagon bolt	221
0322	screw	capscrew	441
0332	socket screw	button head	551
0342	flange	blind flange	331
0352	socket screw	countersunk	441

Dept1_Parts Relation

Part_ID	Part_Name	Description	Supp_ID
0302	flange	slip-on flange	331
0322	screw	capscrew	441
0332	socket screw	button head	551
0362	bolt	studbolt	441

Dept2_Parts Relation

- A. SELECT * FROM
Dept1_Parts
EXCEPT(SELECT
Part_ID FROM
Dept2_Parts);
- B. SELECT * FROM
Dept1_Parts MINUS
(SELECT Part_ID
FROM Dept2_Parts);
- C. SELECT * FROM
Dept1_Parts
DIFFERENCE
(SELECT Part_ID
FROM Dept2_Parts);
- D. SELECT * FROM
Dept1_Parts WHERE
Part_ID NOT IN
(SELECT Part_ID FROM
Dept2_Parts);

Answer: D

QUESTION: 7

Consider the Information Engineering diagram shown in the exhibit. 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 RESIDENT relation shown in this diagram?



- A.CREATE TABLE RESIDENT (
 R_ID INTEGER NULL PRIMARY KEY, Room_Num FLOAT,
 Res_Name VARCHAR, Building_ID INTEGER NULL,
 FOREIGN KEY Building_ID REFERENCES BUILDING (Building_ID));
- B.CREATE TABLE RESIDENT (
 R_ID INTEGER NOT NULL PRIMARY KEY, Room_Num BINARY,
 Res_Name VARCHAR (20), Building_ID INTEGER NOT NULL,
 FOREIGN KEY Building_ID REFERENCES BUILDING (Building_ID));
- C.CREATE TABLE RESIDENT (
 R_ID INTEGER NOT NULL PRIMARY KEY, Room_Num INTEGER,
 Res_Name VARCHAR (20), Building_ID INTEGER NOT NULL);
- D.CREATE TABLE RESIDENT (
 R_ID INTEGER NOT NULL PRIMARY KEY,
 Room_Num INTEGER, Res_Name VARCHAR (20),
 Building_ID INTEGER NOT NULL,
 FOREIGN KEY Building_ID REFERENCES BUILDING (Building_ID));

Answer: D

QUESTION: 8

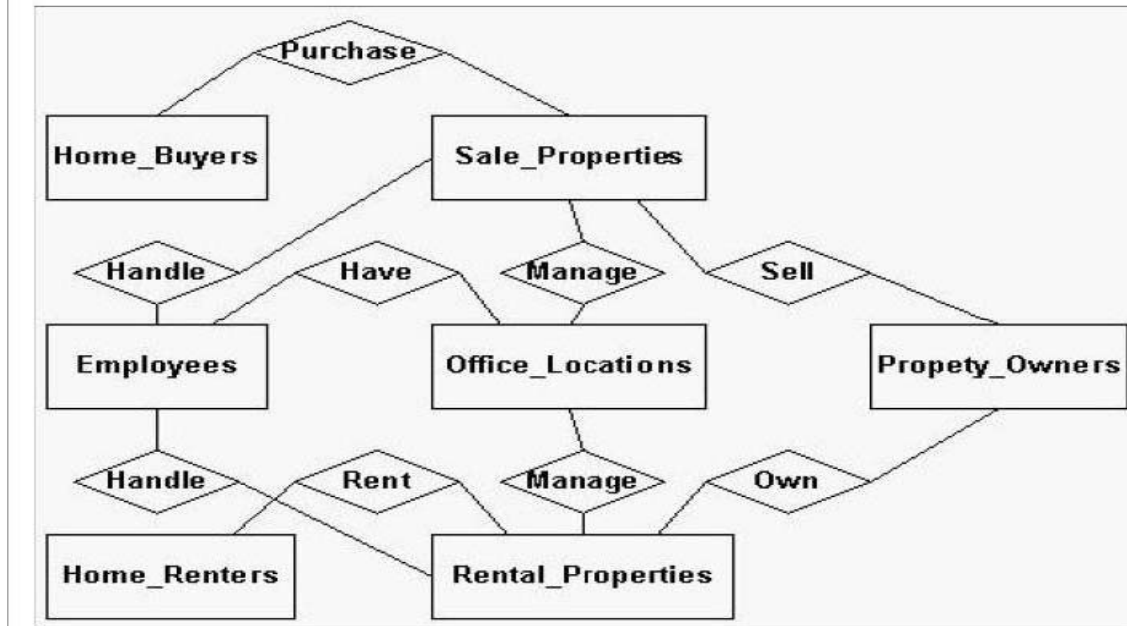
Which term describes one or more database operations that are executed as a single unit?

- A. Update
- B. Transaction
- C. Encapsulation
- D. Operational group

Answer: B

QUESTION: 9

Your enterprise is involved in planning a database project. The exhibit shows the result of one phase of the database design life cycle. Which term best describes the diagram shown in the exhibit?



- A. Information Engineering (IE) data model
- B. Corporate data model
- C. Database requirements model
- D. ERD model

Answer: B

QUESTION: 10



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