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**Vendor:**CIW

**Exam Code:**1D0-541

**Exam Name:**CIW V5 Database Design Specialist

**Version:**Demo

### QUESTION 1

Which term describes the rejoining of relations that have been decomposed?

- A. Normalization
- B. Denormalization
- C. Referential integrity
- D. Domain constraints

Correct Answer: B

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### QUESTION 2

Consider the entity-relationship (ER) diagram shown in the exhibit. What do the characters at the ends of the connecting line indicate?



- A. Degree of a relation
- B. Cardinality of a relation
- C. Primary key of a relation
- D. Determinant of a relation

Correct Answer: B

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### QUESTION 3

Which statement best describes a procedural data manipulation language command?

- A. It contains a query language for retrieving data;
- B. It can be used only to manipulate data through a SQL interface.
- C. The user is not required to know how the underlying data structures are implemented.
- D. It requires that the user know how the underlying data structures are implemented.

Correct Answer: D

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#### QUESTION 4

Consider the Employee relation shown in the exhibit. A database manager wants to set up a view called Emp\_Dept that allows users to find employees and their department ID numbers.

Which SQL statement will accomplish this?

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. CREATE VIEW Emp\_Dept AS SELECT Last\_Name, First\_Name, Dept\_ID FROM Employee;
- B. UPDATE VIEW Emp\_Dept AS SELECT \* FROM Employee;
- C. UPDATE VIEW Emp\_Dept AS SELECT Last\_Name, First\_Name, Dept\_ID FROM Employee;
- D. CREATE VIEW Emp\_Dept AS SELECT \* FROM Employee WHERE ID = 0001 AND ID = 0002 AND ID = 0003 AND ID = 0004;

Correct Answer: A

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#### QUESTION 5

Which subset of Structured Query Language (SQL) is used to perform operations such as data retrieval or deletion on the data contained in a database?

- A. Data Control Language
- B. Data Definition Language
- C. Data Formatting Language
- D. Data Manipulation Language

Correct Answer: D

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### QUESTION 6

The exhibit shows a relation for a company's projects. Which candidate key(s) would best serve as the primary key for this relation?

Proj_ID	Item_Num	Item_Qty	Item_Price	S_Date	E_Date	Total_Cost
1001	3211	50	.70	2-2-99	2-2-00	3.50
1001	4311	100	.50	2-2-99	2-2-00	50.00
1002	3211	40	1.00	4-4-00	5-9-00	40.00
1003	5211	200	.50	5-5-00	7-8-00	100.00

**Project Relation**

- A. S\_Date and E\_Date
- B. Proj\_ID
- C. Item\_Num and E\_Date
- D. Proj\_ID and Item\_Num

Correct Answer: D

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### QUESTION 7

For the Employee relation shown in the exhibit, which set of column values holds the complete tuple for the employee named James Smith?

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. 0002, James, Smith
- B. 0002, James, Smith, 10-25-76
- C. First\_Name, James, Last\_Name, Smith
- D. Emp\_ID, 0002, First\_Name, James, Last\_Name, Smith

Correct Answer: B

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**QUESTION 8**

In which situation would the DBMS use a serial schedule to execute the transactions?

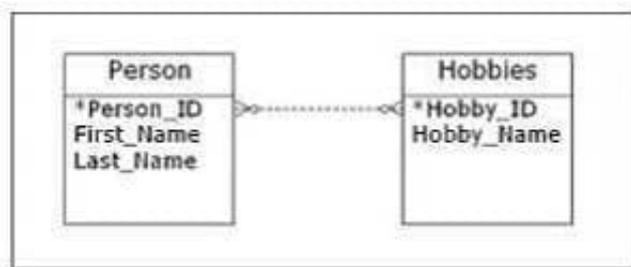
- A. Concurrent transactions read data from the same data structure.
- B. Concurrent transactions write data to different data structures.
- C. Concurrent transactions read or write the same data structure.
- D. Concurrent transactions read or write from different data structures.

Correct Answer: C

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**QUESTION 9**

Consider the entity-relationship (ER) diagram shown in the exhibit. Which type of relationship between the two entities is shown?



- A. m:m
- B. m:n
- C. 1:1
- D. 1:n

Correct Answer: B

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**QUESTION 10**

Which of the following definitions applies to all types of databases?

- A. Data that is stored as tables
- B. Software that manipulates data
- C. Data that is stored in a structured manner
- D. Data records that are stored sequentially in a file

Correct Answer: C

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**QUESTION 11**

Consider the Stu\_Act and Act\_Fee tables shown in the exhibit. Which relational algebraic operation would yield the Activity Relation table in the exhibit?

Student_ID	Activity
1001	Bowling
1002	Racquetball
1003	Tennis
1004	Racquetball

**Stu\_Act Relation**

Activity	Fee
Bowling	50
Racquetball	75
Tennis	100

**Act\_Fee Relation**

Student_ID	Activity	Fee
1001	Bowling	50
1002	Racquetball	75
1003	Tennis	100
1004	Racquetball	75

**Activity Relation**

- A. Union
- B. Intersection
- C. Natural join
- D. Cartesian product

Correct Answer: C

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**QUESTION 12**

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