

## 1D0-541<sup>Q&As</sup>

CIW V5 Database Design Specialist

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## QUESTION 1

Which term describes the management of simultaneous transactions to prevent conflicts?

- A. Parallelism
- B. Serialization
- C. Database control
- D. Concurrency control

Correct Answer: D

## QUESTION 2

Consider the following table as well as the Dept1\_Parts and Dept2\_Parts relations shown in the exhibit:

Dept1\_Parts –  $\pi_{Part\_ID} (Dept2\_Parts)$

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

Which of the following relational algebraic expressions would result in the given table?

Part_ID	Part_Name	Description	Supp_ID
0302	flange	slip-on flange	331
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
0362	bolt	studbolt	441

- A. Dept1\_Parts  $\cup$  Dept2\_Parts
- B. Dept2\_Parts  $-$  Dept1\_Parts
- C. Dept1\_Parts  $\cap$  Dept2\_Parts
- D. Dept1\_Parts  $\times$  Dept2\_Parts

A. B. C. D.

Correct Answer: A

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### QUESTION 3

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 4

The exhibit shows a table called Activity Relation that relates a unique student identification number with a sports activity and a fee for participating in that activity. A student can participate in only one activity. The key for the relation is Student\_ID. What consequence would occur if the tuple for Student\_ID 1001 were removed?

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

**Activity Relation**

- A. An update anomaly would occur.
- B. An insertion anomaly would occur.
- C. A deletion anomaly would occur.
- D. Both an insertion anomaly and a deletion anomaly would occur.

Correct Answer: C

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#### QUESTION 5

Which statement accurately describes a characteristic of attributes?

- A. The ordering of attributes in a table is significant.
- B. An attribute contains values from multiple domains.
- C. An attribute name can be used only once per table.
- D. An attribute name can be used only once in a relational database system with multiple tables.

Correct Answer: C

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#### QUESTION 6

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
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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;

Correct Answer: C

**QUESTION 7**

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 8**

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

- A. Update
- B. Transaction
- C. Procedure
- D. Singleton

Correct Answer: B

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### QUESTION 9

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 10

Your enterprise is developing a database system that will contain highly sensitive data; Security of the data will take priority over database processing speed. Which database protection technique should be employed?

- A. Backups
- B. User views
- C. Encryption
- D. Integrity controls

Correct Answer: C

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**QUESTION 11**

Which of the following describes two desirable characteristics of a primary key?

- A. A primary key should be a value that may be null and may change over time.
- B. A primary key should be a value that is not null and will never change.
- C. A primary key should consist of meaningful data and a value that can be changed if needed.
- D. A primary key should not consist of meaningful data and a value that can be changed if needed.

Correct Answer: B

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**QUESTION 12**

Which of the following occurs in a relation when records are added or removed?

- A. The number of domains changes.
- B. The attributes in the table change.
- C. The cardinality of the relation is fixed but the degree varies.
- D. The degree of the relation is fixed but the cardinality varies.

Correct Answer: D

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**QUESTION 13**

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

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**QUESTION 14**

Consider the Registration relation shown in the exhibit. Which of the following SQL statements would return all tuples that have course codes beginning with the letter M?

Registration_ID	Student_ID	Course_Code	First_Name	Last_Name
1001	S320	M3455	Teri	Chan
1002	S255	M3455	Carlos	Trujillo
1003	S511	A4343	Helen	Yang
1004	S812	S4511	Robert	Cray
1005	S320	A4343	Teri	Chan
1006	S255	M4422	Carlos	Trujillo
1007	S511	M4433	Helen	Yang
1008	S812	S2212	Robert	Cray

**Registration Relation**

- A. SELECT \* FROM Registration WHERE Course\_Code = M#;
- B. SELECT \* FROM Registration WHERE Course\_Code LIKE M\_;
- C. SELECT \* FROM Registration WHERE Course\_Code LIKE M%;
- D. SELECT \* FROM Registration WHERE Course\_Code = M%;

Correct Answer: C

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**QUESTION 15**

Which subset of Structured Query Language (SQL) is used to create and name database entities?

- A. Data Control Language
- B. Database Entity Language
- C. Data Definition Language
- D. Data Manipulation Language

Correct Answer: C

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