

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

CIW V5 Database Design Specialist

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**QUESTION 1**

Consider the following relational algebraic expression as well as the Dept1\_Parts and Dept2\_Parts relations shown in the exhibit:

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

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 relations would result from the given relational algebraic expression?

A.

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

B.

Part_ID	Part_Name	Description	Supp_ID
0322	screw	capscrew	441
0332	socket screw	button head	551

C.

Part_ID	Part_Name	Description	Supp_ID
0312	bolt	hexagon bolt	221
0342	flange	blind flange	331
0352	socket screw	countersunk	441

D.

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

A. B. C. D.

Correct Answer: C

**QUESTION 2**

Which area of database security involves maintaining access to enterprise data?

- A. Integrity
- B. Privacy
- C. Availability
- D. Confidentiality

Correct Answer: C

**QUESTION 3**

Consider the following SQL statement and the Orders relation shown in the exhibit:

```
SELECT *  
FROM Orders  
WHERE Order_Date BETWEEN '12/14/01' AND '02/02/02';
```

Order_No	Order_Date	Customer_No	Sales_Rep_No	Amount
2001	11-04-01	1001	108	24.89
2004	12-14-01	1004	210	126.99
2006	01-14-02	1008	187	1216.69
2009	01-15-02	1008	350	926.89
2012	02-02-02	1001	108	816.09
2015	02-10-02	1004	210	1818.19
2016	02-15-02	1006	109	678.99

**Orders Relation**

How many records should be returned?

- A. Two records
- B. Three records
- C. Four records
- D. Five records

Correct Answer: C

**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

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**QUESTION 5**

Which of the following is a characteristic of the three-tier database architecture?

- A. A Web browser is used as the application server.
- B. The application logic is centralized on a dedicated server.
- C. A thick client is used to perform business application logic functions locally.
- D. Database application logic and database functionality are integrated and reside on a common server.

Correct Answer: B

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