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## Database Fundamentals

Microsoft 98-364

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## QUESTION NO: 1

This question requires that you evaluate the underlined text to determine if it is correct.

Use the ALTER statement to add a new table in a database.

Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed." If the statement is incorrect, select the answer choice that makes the statement correct.

- A. No change is needed
- B. UPDATE
- C. INSERT
- D. CREATE

**ANSWER: D**

## QUESTION NO: 2

What is the relationship between the foreign key and primary key? Each correct answer represents a complete solution. (Choose all that apply.)

- A. A foreign key constraint works in conjunction with a primary key constraint to enforce referential integrity among related entities.
- B. A foreign key ties attribute(s) of an entity to the primary key of another entity, for the purpose of creating a dependency.
- C. There is no relationship between a primary key and a foreign key.
- D. A foreign key and a primary key create a link between two entities.

**ANSWER: A B**

## QUESTION NO: 3 - (HOTSPOT)

HOTSPOT

Instructions: For each of the following statements, select Yes if the statement is true. Otherwise, select No. Each correct selection is worth one point.

**Hot Area:**

## Answer Area

### Description of Behavior

Yes

No

A SQL Server Login can use Windows Authentication.

A SQL Server Role provides permissions at the server level.

A SQL Server Login is granted permissions to database views only.

## ANSWER:

## Answer Area

### Description of Behavior

Yes

No

A SQL Server Login can use Windows Authentication.

A SQL Server Role provides permissions at the server level.

A SQL Server Login is granted permissions to database views only.

## QUESTION NO: 4

You are a database developer for a database named Sales hosted on a SQL Server 2008 server.

The Sales database includes the Exams and ExamQuestions tables.

If any questions are modified for an exam, you need to ensure that the ExamModifiedDate in the Exams table is updated with the date and time of the update. The ExamQuestions table includes an INSTEAD OF trigger that records when and who last modified each question.

Therefore, you decide to create a trigger.

You only want the trigger to fire if a constraint violation has not occurred.

Which of the following code will create the trigger to meet your goals?

**A.** CREATE TRIGGER trgExamQuestionsModified  
ON dbo.ExamQuestions  
INSTEAD OF UPDATE NOT FOR REPLICATION  
AS  
UPDATE Exams  
SET ExamModifiedDate = GetDate()  
FROM inserted  
WHERE inserted.ExamID = Exams.ExamID

**B.** CREATE TRIGGER trgExamQuestionsModified  
ON dbo.ExamQuestions  
AFTER UPDATE NOT FOR REPLICATION  
AS  
UPDATE Exams  
SET ExamModifiedDate = GetDate()  
FROM inserted  
WHERE inserted.ExamID = Exams.ExamID

**C.** CREATE TRIGGER trgExamQuestionsModified  
ON dbo.ExamQuestions  
AFTER UPDATE FOR REPLICATION  
AS  
UPDATE Exams  
SET ExamModifiedDate = GetDate()  
FROM inserted  
WHERE inserted.ExamID = Exams.ExamID

**D.** CREATE TRIGGER trgExamQuestionsModified  
ON dbo.Exams  
AFTER UPDATE NOT FOR REPLICATION  
AS  
UPDATE Exams  
SET ExamModifiedDate = GetDate()  
FROM inserted  
WHERE inserted.ExamID = Exams.ExamID

**ANSWER: B**

## QUESTION NO: 5

JDBC API 2.0 defines five levels of transaction isolation for database concurrency control.

Which of the following is the lowest level of transaction isolation?

- A.** TRANSACTION\_SERIALIZABLE
- B.** TRANSACTION\_NONE
- C.** TRANSACTION\_READ\_COMMITTED
- D.** TRANSACTION\_READ\_UNCOMMITTED

E. TRANSACTION\_REPEATABLE\_READ

**ANSWER: B**

## QUESTION NO: 6

Which of the following are DML commands? Each correct answer represents a complete solution. (Choose all that apply.)

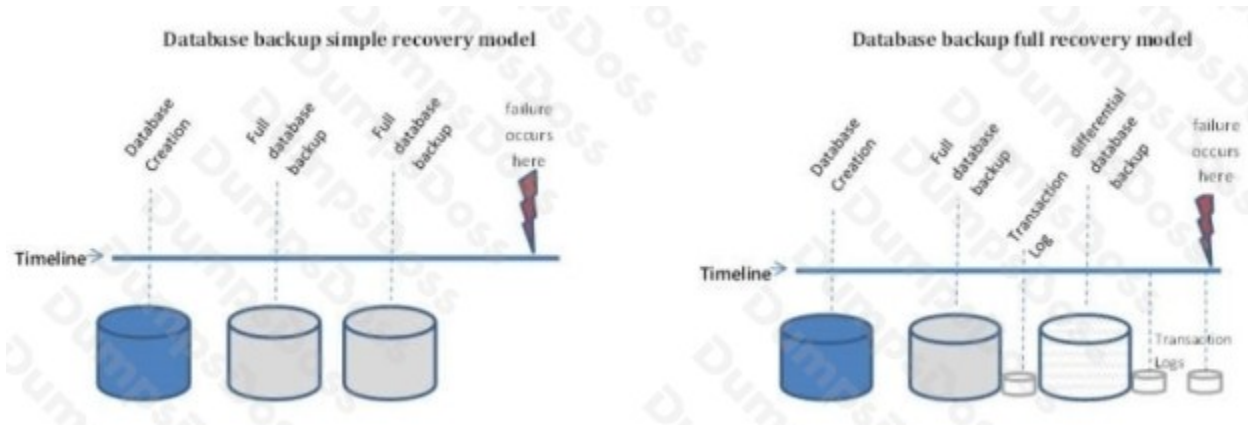
- A. SELECT INTO
- B. DELETE
- C. UPDATE
- D. ALTER
- E. SELECT
- F. INSERT

**ANSWER: A B C F**

## QUESTION NO: 7 - (HOTSPOT)

HOTSPOT

The following illustration shows backup strategies that use the simple recovery model and the full recovery model:



Instructions: Use the drop-down menus to select the answer choice that completes each statement. Each correct selection is worth one point.

**Hot Area:**

## Answer Area

Using the simple recovery model for database backups provides [answer choice] work-loss exposure than the full recovery model.

<input type="button" value="v"/>
less
more
the same

Using the simple recovery model for database backups provides [answer choice] log file backups than the full recovery model.

<input type="button" value="v"/>
less
more
the same

**ANSWER:**

## Answer Area

Using the simple recovery model for database backups provides [answer choice] work-loss exposure than the full recovery model.

<input type="button" value="v"/>
less
more
the same

Using the simple recovery model for database backups provides [answer choice] log file backups than the full recovery model.

<input type="button" value="v"/>
less
more
the same

## QUESTION NO: 8

Which of the following commands can be used to change the authorization type in DB2 9? Each correct answer represents a complete solution. (Choose all that apply.)

- A. UPDATE DATABASE CONFIGURATION
- B. SET AUTHORISATION
- C. RESET DATABASE CONFIGURATION
- D. UPDATE DBM CFG

**ANSWER: A D**

## QUESTION NO: 9

Which two keys establish a relationship between two tables? (Choose two.)

- A. candidate
- B. foreign
- C. superkey
- D. local
- E. primary

**ANSWER: B E**

## QUESTION NO: 10

Which constraint ensures a unique value in the ID column for each customer?

- A. DISTINCT
- B. FOREIGN KEY
- C. SEQUENTIAL
- D. PRIMARY KEY

**ANSWER: D**

## QUESTION NO: 11 - (DRAG DROP)

DRAG DROP Your class project requires that you help a charity set up a website.

The website collects information about volunteers. Each volunteer record must be uniquely identified.

The following information is stored for each volunteer:

- Given name
- Surname
- Date of birth
- Phone number ▪ Photo

You need to create a table to meet the requirements.

Match the Structured Query Language SQL statements to the SQL query.

Instructions: To answer, drag the appropriate SQL statement from the column on the left to its place in the SQL query on the right. Each SQL statement may be used once, more than once, or not at all. Each correct match is worth one point.

Select and Place:

Code Segment	Answer Area
<input type="text" value="TIMESTAMP NULL,"/>	<pre>CREATE TABLE [dbo].[Volunteer] (   [Id] <input type="text" value="Code Segment"/>   [GivenName] NCHAR(255) NULL,   [Surname] NCHAR(255) NULL,   [DateOfBirth] <input type="text" value="Code Segment"/>   [PhoneNumber] NCHAR(10) NULL,   [Photo] <input type="text" value="Code Segment"/> )</pre>
<input type="text" value="DATE NULL,"/>	
<input type="text" value="IMAGE NULL,"/>	
<input type="text" value="XML NULL,"/>	
<input type="text" value="INT NOT NULL PRIMARY KEY,"/>	
<input type="text" value="INT NOT NULL FOREIGN KEY,"/>	

ANSWER:

Code Segment	Answer Area
<input type="text" value="TIMESTAMP NULL,"/>	<pre>CREATE TABLE [dbo].[Volunteer] (   [Id] <input type="text" value="INT NOT NULL PRIMARY KEY,"/>   [GivenName] NCHAR(255) NULL,   [Surname] NCHAR(255) NULL,   [DateOfBirth] <input type="text" value="DATE NULL,"/>   [PhoneNumber] NCHAR(10) NULL,   [Photo] <input type="text" value="IMAGE NULL,"/> )</pre>
<input type="text" value="DATE NULL,"/>	
<input type="text" value="IMAGE NULL,"/>	
<input type="text" value="XML NULL,"/>	
<input type="text" value="INT NOT NULL FOREIGN KEY,"/>	

## QUESTION NO: 12

You work as the Database Administrator for www.company.com.

All servers on the www.company.com network run Windows Server 2003 and Windows Server 2000, and all client computers run Windows XP professional and Windows Vista.

The www.company.com network area consists of a single Active Directory domain named www.company.com.

The www.company.com network contains a Microsoft SQL Server 2005 database server named COMPANY-DB111, which you administer at a regular interval of time. COMPANY-DB111 contains and hosts three databases that support different types of business requirements.

The network uses the DBA database that supports internal operations including maintaining data, accounting, and mailing. The network's regular users make use of stored procedures for the data values that need insertion into the tables. The stored procedures used in the network of the company are designed to access SQL variant type parameters and then use the values to build and execute ad hoc query statements that are the part of the SQL statements. During a routine network check, you discover that there are several odd occurrences in the database.

The odd occurrences include data deleted from tables and other unauthorized activity.

You suspect a user is executing the unauthorized statements through the stored procedures.

You are required to stop the unauthorized changes while having least impact on the stored procedures that are in use. Your explanation must use the least administrative effort.

What should you do?

- A. The input parameters should be parsed to watch for and block any input including single quotes.
- B. The stored procedures used for the table should be replaced with ad hoc queries.
- C. The stored procedure should be customized to use type-specific and length-restricted parameters.
- D. All data handling activity on the table should be audited and recorded.

**ANSWER: C**

## QUESTION NO: 13

Remo works as a Database Designer for Tech Inc.

He wants to create a table named Product.

He issues the following query to create the Product table:

```
CREATE Product (  
ProductID Char (10) NOT NULL,  
OrderID Char (10) NULL  
ProductName Varchar NOT NULL,  
Primary key (OrderID, ProductID))
```

What are the errors in the above query? Each correct answer represents a complete solution. (Choose two.)

- A. An attribute declared as a primary key cannot contain NULL values.
- B. Each attribute should be defined as a primary key separately.
- C. A table cannot have two primary keys.

D. ProductName is declared as Varchar without specifying the width of the column.

**ANSWER: A D**

## QUESTION NO: 14

Which of the following refers to the system, processes, and procedures that protect a database from unintended activities, such as authenticated misuse, malicious attacks, or inadvertent mistakes made by authorized individuals or processes?

- A. Database security
- B. Encryption
- C. Abstraction
- D. Referential integrity

**ANSWER: A**

## QUESTION NO: 15

Which of the following are the correct statements of using the Flashback Query feature in Oracle? Each correct answer represents a complete solution. (Choose all that apply.)

- A. CREATE TABLE AS SELECT AS OF
- B. SELECT AS OF
- C. CREATE TABLE AS SELECT
- D. INSERT INTO (SELECT)

**ANSWER: A B**