98-364^{Q&As}

Database Fundamentals

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QUESTION 1

You need to store the first name, last name, and student ID for 100 students.

This information will be stored in a table as:

A. 100 items and three cells.

B. 100 rows and three columns.

C. three rows and 100 columns.

D. three items and 100 cells.

Correct Answer: B

QUESTION 2

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

You have two tables. Each table has three rows. You create a SQL query that uses a cross join. The query does not include a WHERE clause.

Nine rows will be included in the Cartesian product of these two tables.

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 corrector.

A. No change is needed

B. Zero

C. Three

D. Six

Correct Answer: A

QUESTION 3

One reason to create a stored procedure is to:

A. Improve performance.

B. Minimize storage space.

C. Bypass case sensitivity requirements.

D. Give the user control of the query logic.

Correct Answer: A

QUESTION 4

You accept an IT internship at a local charity. The charity asks you to keep a record of its volunteers by using a database table named Volunteer.

The table has the following columns and rows:

Id	GivenName
1	Tia
2	Susana
3	Joey

When volunteer information changes, you must update the table.

You need to change Tia\\'s name to Kimberly.

Which statement should you choose?

A.
```
SET GivenName = 'Kimberly'
FROM Volunteer
WHERE GivenName = 'Tia'
```

B.
```
SET Volunteer
TO GivenName = 'Kimberly'
WHERE GivenName = 'Tia'
```

C.
```
UPDATE GivenName = 'Kimberly'
FROM Volunteer
WHERE GivenName = 'Tia'
```

D.
```
UPDATE Volunteer
SET GivenName = 'Kimberly'
WHERE GivenName = 'Tia'
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 5

Which statement should you use to remove a foreign key?

A. ALTER TABLE

B. DELETE TABLE

C. DELETE FOREIGN KEY

D. ALTER FOREIGN KEY

Correct Answer: A

QUESTION 6

The component that holds information for a single entry in a table is called a:

A. Data type

B. Row

C. Column D. View

Correct Answer: B

QUESTION 7

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 full database backup is a copy of all of the data in the entire database.	◯	◯
A transaction log backup backs up all the data in the database.	◯	◯
A differential backup copies only data that was changed before the last full backup.	◯	◯
A file or filegroup restore specifies a portion of the database to recover.	◯	◯

Correct Answer:

Answer Area

Description of Behavior	Yes	No
A full database backup is a copy of all of the data in the entire database.	◉	○
A transaction log backup backs up all the data in the database.	○	◉
A differential backup copies only data that was changed before the last full backup.	○	◉
A file or filegroup restore specifies a portion of the database to recover.	◉	○

QUESTION 8

You have a table that contains the following data.

ProductID	ProductCategory
32	books
25	books
67	movies
89	movies

Which database term is used to describe the relationship between ProductID and ProductCategory?

A. Cohort

B. Relationally dependent

C. Deterministic

D. Functionally dependent

E. Compositional

Correct Answer: D

QUESTION 9

You accept an IT internship at a local charity. The charity asks you to keep a record of its volunteers by using a database table named Volunteer.

When volunteers ask to be removed from mailing lists, the table must be updated.

You need to use a transaction to ensure that the database has data integrity and referential integrity.

Which statement should you use?

A.
```
BEGIN TRANSACTION VolunteerDelete;
DELETE FROM Volunteer WHERE Id = 13;
COMMIT TRANSACTION VolunteerDelete;
```

B.
```
WHILE TRANSACTION VolunteerDelete;
DELETE FROM Volunteer WHERE Id = 13;
CATCH TRANSACTION VolunteerDelete;
```

C.
```
OPEN TRANSACTION VolunteerDelete;
DELETE FROM Volunteer WHERE Id = 13;
CLOSE TRANSACTION VolunteerDelete;
```

D.
```
UPDATE TRANSACTION VolunteerDelete;
DELETE FROM Volunteer WHERE Id = 13;
END TRANSACTION VolunteerDelete;
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 10

You have a table named Product. The Product table has columns for ProductDescription and ProductCategory.

You need to change the ProductCategory value for all the spoons in the Product table to 43.

Which statement should you use?

A.   UPDATE Product
          SET ProductCategory = 43
          WHERE ProductDescription = 'spoon'

B.   SET Product
          WHERE ProductDescription = 'spoon'
          TO ProductCategory = 43

C.   UPDATE Product
          WHERE ProductDescription = 'spoon'
          SET ProductCategory = 43

D.   SET Product
          TO ProductCategory = 43
          WHERE ProductDescription = 'spoon'

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 11

You have a table named Student that contains 100 rows. Some of the rows have a NULL value in the FirstName column. You execute the following statement:

DELETE FROM Student

What is the result?

A. All rows in the table will be deleted.

B. All rows containing a NULL value in the FirstName column will be deleted.

C. You will receive an error message.

D. All rows and the table definition will be deleted.

Correct Answer: A

QUESTION 12

You have two tables named Salesperson and Sales.

You need to ensure that each record in the Sales table has a valid associated salesperson record in the Salesperson table.

Which database object should you add to the Sales table?

A. Nonclustered index

B. Primary key

C. Foreign key

D. Clustered index

Correct Answer: B

QUESTION 13

You are developing a SQL query.

Which two SQL constructs represent data manipulation language (DML) statements? Choose two.

A. SELECT EmployeeName FROM Employee WHERE EmployeeName = \\'Jack Smith\\';

B. INSERT INTO Employee VALUES (\\'Jack Smith\\')

C. ALTER TABLE Employee ADD EmployeeName Varchar;

D. CREATE ROW IN Employee WHERE EmployeeName = \\'Jack Smith\\';

Correct Answer: AB

Data manipulation languages have their functional capability organized by the initial word in a statement, which is almost always a verb. In the case of SQL, these verbs are:

SELECT ... FROM ... WHERE ... (strictly speaking DQL)

SELECT ... INTO ...

INSERT INTO ... VALUES ...

UPDATE ... SET ... WHERE ...

DELETE FROM ... WHERE ...

References:

https://en.wikipedia.org/wiki/Data_manipulation_language

QUESTION 14

You are creating a table to store customer data. The AccountNumber column uses values that always consist of one

letter and four digits. Which data type should you use for the AccountNumber column?

A. CHAR

B. BYTE

C. DOUBLE

D. SMALLINT

Correct Answer: A

QUESTION 15

You have a table that contains the following data.

ProductID	ProductName	Color1	Color2	Color3
4545	Shirt	Blue	Green	Purple

You break the table into the following two tables.

ProductID	ProductName
4545	Shirt

ProductID	Color
4545	Blue
4545	Green
4545	Purple

This process is referred to as:

A. defragmentation

B. normalization

C. fragmentation

D. denormalization

Correct Answer: B

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