Instructions

- The results that are currently available for your attempt are listed to the right.

Legend

- Correct Response
- Incorrect Response
- Correct Answer

Chapter 09 Study Guide

Quizzes Home | Summary | Submissions | Reports

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To Submissions

Attempt 1

Written: Dec 4, 2007 from 11:02 PM to 11:07 PM

Submission View

Your quiz has been submitted successfully.

Question 1 **5.56 / 5.56 points**

To model a database on a real-world system, you typically represent each real-world entity as a/an _____.

Answer: table ✓

Question 2 **5.56 / 5.56 points**

The most common type of relationship between two tables is called a/an _____ relationship.

Answer: one-to-many ✓

Question 3 **5.56 / 5.56 points**

If two tables have a many-to-many relationship, you need to define a/an _____ table that relates their records.

Answer: linking ✓

Question 4 **5.56 / 5.56 points**

To maintain _____, if you delete a row in a primary key table, you must also delete any related rows in foreign key tables.

Answer: referential integrity ✓

Question 5 **5.56 / 5.56 points**

The rows in a table are kept in the sequence that's based on its _____ index.

Answer: clustered ✓

Question 6 **5.56 / 5.56 points**

To normalize a data structure, you apply the _____ in sequence.

Answer: normal forms ✓

Question 7 **5.56 / 5.56 points**

Typically, most database designers consider a database structure normalized if it's in the _____ normal form.

Answer: third ✓

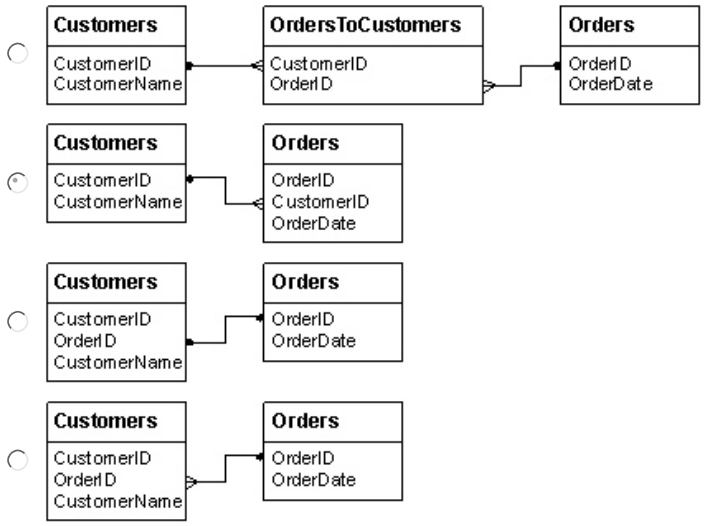
Question 8 **5.56 / 5.56 points**

When you identify the data elements in a new database, you typically subdivide data elements into

- ○ the largest practical components
- ✓ ◉ the smallest practical components
- ○ components that can be easily parsed each time you use them

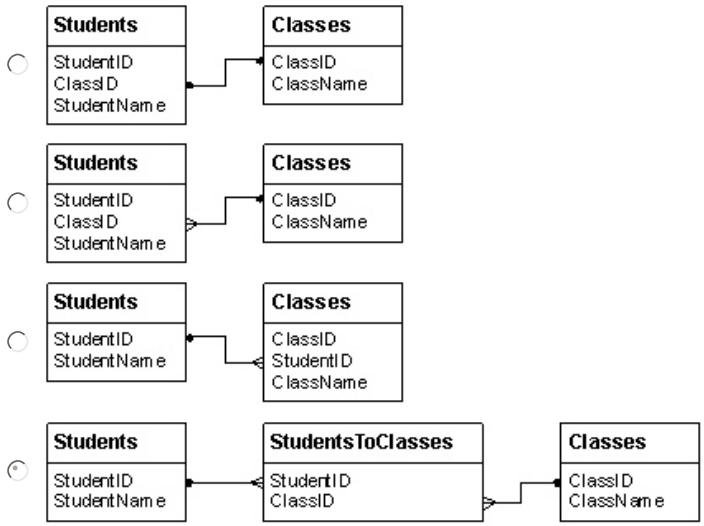
Question 9 **5.56 / 5.56 points**

Which of the following diagrams best represents the relationship between a table of customers and a table of orders placed by customers?



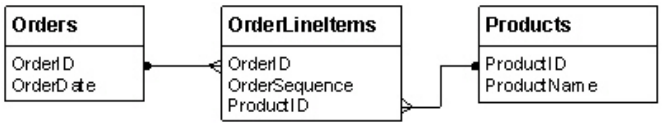
Question 10 **5.56 / 5.56 points**

Which of the following diagrams best represents the relationship between a table of students and a table of classes for which the student is registered?



Question 11 **5.55 / 5.55 points**

Figure 9-1



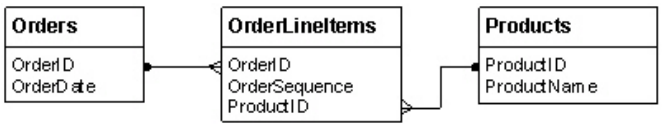
(Refer to figure 9-1.) Which column or columns in each table should be defined as the primary key?

- Orders: OrderID; OrderLineItems: OrderID and OrderSequence; Products: ProductID
- Orders: OrderID and OrderDate; OrderLineItems: OrderID and OrderSequence; Products: ProductID
- Orders: OrderID; OrderLineItems: OrderID; Products: ProductID

- Orders: OrderID; OrderLineItems: OrderID, OrderSequence, and ProductID; Products: ProductID and ProductName

Question 12 **5.55 / 5.55 points**

Figure 9-1



(Refer to figure 9-1.) Which column or columns in each table are foreign keys?

- Orders: OrderID; OrderLineItems: OrderSequence; Products: ProductID
- ✓ Orders: none; OrderLineItems: OrderID and ProductID; Products: none
- Orders: OrderID; OrderLineItems: OrderID and OrderSequence; Products: ProductID
- Orders: none; OrderLineItems: OrderID and OrderSequence; Products: none

Question 13 **5.55 / 5.55 points**

Which of the following does *not* violate the referential integrity of a database?

- ✓ deleting a row in a foreign key table without deleting the related row in the related primary key table
- inserting a new row into a table with a foreign key that doesn't match a primary key in the related table
- updating a foreign key with a value that doesn't match a primary key in the related table
- updating a primary key in a primary key table without also updating the foreign keys for the related rows in all related tables

Question 14 **0 / 5.55 points**

To enforce referential integrity, the database can

- A. return an error instead of doing the requested action
- B. do the requested action and do the related changes to the related tables
- C. do the requested action and mark any orphans in related tables
- ➡ D. a or b
- ✗ E. a or c

Question 15 **5.55 / 5.55 points**

Which of the following is not a good guideline for deciding when to create an index for a column?

- The column contains a large number of unique values.
- The column is a foreign key.
- ✓ The column is frequently updated.
- The column is frequently used in search conditions or joins.

Question 16 **5.55 / 5.55 points**

To be in the first normal form, each cell in a table must contain

- a unique value
- a non-unique value
- ✓ a single, scalar value

- a non-redundant value

Question 17 **5.55 / 5.55 points**

To apply the second normal form, you move columns that don't depend on the entire primary key to another table and establish a relationship between the two tables. This

- increases redundancy but makes maintenance easier
- increases redundancy but makes the data more consistent
- reduces redundancy but makes maintenance more difficult
- ✓ reduces redundancy and makes maintenance easier

Question 18 **5.55 / 5.55 points**

To be in the third normal form,

- the non-key columns must not contain repeating values
- each non-key column must depend only on the primary key
- each non-key column must depend on the entire primary key
- ✓ all of the above

Attempt Score: 94.45 / 100 (94.45%)
Overall Grade (highest attempt)**:** 94.45 / 100 (94.45%)