

# Homework 5

## Chapter 13

### Multiple Choice:

1. A(n) DBMS is software that is specifically designed to store, retrieve, and manipulate large amounts of data in an organized and efficient manner.

1. Software development kit (SDK)

- 2. Database management system (DBMS)**

3. Application programming interface (API)

4. Driver development kit (DDK)

2. A Database is a collection of tables that are stored using a database management system.

1. Data source

2. Dataset

- 3. Database**

4. Spreadsheet

3. A Table holds a collection of related data that is organized into rows and columns.

- 1. Table**

2. Grid

3. Dataset

4. Worksheet

4. A \_\_Row\_\_\_\_ is a complete set of information about a single item in a table of a database.

1. Data source
2. Dataset
3. Column

#### **4. Row**

5. A(n) \_\_Column\_\_\_\_ holds an individual piece of information about the item in a row of a table in a database.

#### **1. Column**

2. Volume
3. Record
4. Entry

6. A \_\_Primary Key\_\_\_\_ is a unique column value that can be used to identify a specific row in a table of a database.

1. Data cell

#### **2. Primary key**

3. Prime column
4. Lookup entry

7. A(n) \_\_Identity Column\_\_\_\_ is a column that contains unique values that are generated by the DBMS.

1. Generated column
2. Pseudo-primary key

#### **3. Identity column**

4. Automatic entry

8. A \_\_Data Source\_\_\_\_ is a source of data with which the application can work.

1. Database communicator
2. Dataset

### **3. Data source**

4. Parser

9. A \_\_Table adapter\_\_\_\_ connects to a data source and can retrieve and update data from a table in a data source.

1. Source connection
2. Dataset
3. Binding source

### **4. Table adapter**

10. A \_\_Dataset\_\_\_\_ gets a copy of a table from the table adapter and keeps the copy of the table in memory.

1. Connection

### **2. Dataset**

3. Read-only table
4. Table adapter

11. A \_\_Binding source\_\_\_\_ is a component that can connect user interface controls directly to a dataset.

1. Controller
2. Source editor

### **3. Binding source**

4. Component adapter

12. A \_\_Data-bound control\_\_\_\_ is a user interface control that is connected to a data source.

1. DBMS component

### **2. Data-bound control**

- 3. Source control
- 4. Database control

13. A \_\_\_DataGridView control\_\_\_\_\_ can display an entire database table in a scrollable grid on an application's form.

- 1. Scrollable data control
- 2. Table control
- 3. SmartGrid control

#### **4. DataGridView control**

14. A \_\_\_Details view\_\_\_\_\_ is a set of individual controls that are bound to the columns in a single row.

- 1. Data-bound control set
- 2. Data collection

#### **3. Details view**

- 4. Column view

15. In a Visual Studio project, the *bin\Debug* folder is known as the \_\_\_OutPut folder\_\_\_\_\_ .

- 1. Input folder

#### **2. Output folder**

- 3. Build folder
- 4. Home folder

16. In the *Designer*, the \_\_Smart tag\_\_\_\_\_ that appears in the upper-right corner of a control's bounding box can be clicked to display a tasks panel, which provides a number of options that can be performed with the control.

- 1. Double arrow

#### **2. Smart tag**

- 3. Resizing handle
- 4. Name

17. The \_\_DataSource property\_\_\_\_ identifies the table from which to get data.

**1. DataSource property**

- 2. Table property
- 3. DataBound property
- 4. DataTable property

18. The \_\_DisplayMember property\_\_\_\_ identifies the column of the table from which to display data.

- 1. DisplayData property
- 2. DataOutput property
- 3. ShowColumn property

**4. DisplayMember property**

19. \_\_SQL\_\_\_\_, which stands for \_\_structured query language\_\_\_\_, is a standard language for working with database management systems.

**1. SQL, structured query language**

- 2. DBL, database language
- 3. XML, extensible markup language
- 4. HTML, hypertext markup language

20. \_\_Queries\_\_\_\_ are instructions for the DBMS to carry out operations on its data.

- 1. Command strings

**2. Queries**

- 3. Build statements
- 4. Data tokens

21. In SQL, you use the \_\_Select statement\_\_\_\_ to retrieve the rows in a table.

**1. Select statement**

- 2. Like operator
  - 3. % symbol
  - 4. Where clause
22. A(n) \_\_Table adapter query\_\_\_\_ is an SQL statement that is stored in a table adapter and can be executed simply by calling a method.
- 1. Automated query
  - 2. Dataset query

### **3. Table adapter query**

- 4. Structured data query
23. The \_\_Schema definition file\_\_\_\_ describes the contents of a dataset, and its name appears in the *Solution Explorer* ending with the .xsd file extension.

### **1. Schema definition file**

- 2. Data markup file
- 3. Table description file
- 4. DBMS protocol file

## **True/False**

- 1. When developing applications that work with an intensive amount of data, most developers prefer to use traditional files. **False**
- 2. The DBMS works directly with the data and sends the results of operations back to the application. **True**
- 3. The data that is stored in a database is organized into one or more tables. **True**
- 4. Each column in a table must have a name. **True**
- 5. When you create a database table, the data types that you can choose from are C# data types. **False**
- 6. When working with the data in a database table, the column that is designated as the primary key must hold a unique value for each row. **True**

7. If a column in a database table contains no data, it is said to be null. **True**
8. An application works directly with a database, modifying rows, deleting rows, adding new rows, and so forth. **False**
9. Rather than showing multiple rows at once, a Details view lets the user see one row at a time. **True**
10. SQL is a language that can be used to write data intensive applications. **False**
11. String comparisons in SQL are case sensitive. **False**

1. Database management system (DBMS)
2. Database
3. Table
4. Row
5. Column
6. Primary key
7. Identity column
8. Data source
9. Table adapter
10. Dataset
11. Binding source
12. Data-bound control
13. DataGridView control
14. Details view
15. Output folder
16. Smart tag
17. DataSource property
18. DisplayMember property

19. SQL, Structured Query Language
20. Queries
21. Select statement
22. Table adapter query
23. Schema definition file

**True/False Answers:**

1. False
2. True
3. True
4. True
5. False
6. True
7. True
8. False
9. True
10. False
11. False