

Access Chapter 1 — Databases and Database Objects: An Introduction

MULTIPLE CHOICE

1. Access is a _____.
 - a. word processing software tool
 - b. file management system
 - c. workbook management system
 - d. database management system

ANS: D PTS: 1 REF: AC 2
2. In a(n) ____ database such as those maintained by Access, a database consists of a collection of tables, each of which contains information on a specific subject.
 - a. tabular
 - b. record
 - c. attribute
 - d. relational

ANS: D PTS: 1 REF: AC 2
3. A(n) ____ contains information about a given person, product, or event.
 - a. attribute
 - b. record
 - c. field
 - d. column

ANS: B PTS: 1 REF: AC 3
4. ____ words are words that have a special meaning to Access and cannot be used for the names of fields.
 - a. Reserved
 - b. Restricted
 - c. Significant
 - d. Tagged

ANS: A PTS: 1 REF: AC 4
5. In Access, table and field names can be up to ____ characters in length.
 - a. 256
 - b. 128
 - c. 64
 - d. 32

ANS: C PTS: 1 REF: AC 8
6. A field whose data type is ____ can contain any characters.
 - a. Alpha
 - b. Character
 - c. Normal
 - d. Short Text

ANS: D PTS: 1 REF: AC 9
7. A(n) ____ data type can store a variable amount of text or combination of text and numbers where the total number of characters may exceed 255.
 - a. Memo
 - b. Long Text
 - c. Variable
 - d. Character

ANS: B PTS: 1 REF: AC 9
8. A field with the ____ data type can store a unique sequential number that Access assigns to a record. Access will increment the number by 1 as each new record is added.
 - a. Sequential
 - b. ValueIncrement
 - c. Incremental
 - d. AutoNumber

ANS: D PTS: 1 REF: AC 9

9. A field with the ____ data type can contain an attached file, such as an image, document, chart, or spreadsheet.

a. Attachment	c. Document
b. File	d. Extend

ANS: A PTS: 1 REF: AC 9

10. A field whose data type is ____ can store an OLE object, which is an object linked to or embedded in the table.

a. Illustration	c. Bitmap
b. Image	d. OLE object

ANS: D PTS: 1 REF: AC 9

11. A field whose data type is ____ can store text that can be used as a hyperlink address.

a. URL	c. Placeholder
b. Web	d. Hyperlink

ANS: D PTS: 1 REF: AC 9

12. When you assign a(n) ____ to a field, Access will display the value you assign, rather than the field name, in datasheets and in forms.

a. alternate	c. abbreviation
b. caption	d. tag

ANS: B PTS: 1 REF: AC 10

13. When you create a table in Datasheet view, Access automatically adds a field called ____ as the first field in the table.

a. AutoNumber	c. ID
b. AutoFill	d. PrimaryID

ANS: C PTS: 1 REF: AC 11

14. To define an additional field in Datasheet view, tap or click the ____ column heading.

a. New Field	c. Click to Add
b. Add Field	d. Insert Field

ANS: C PTS: 1 REF: AC 14

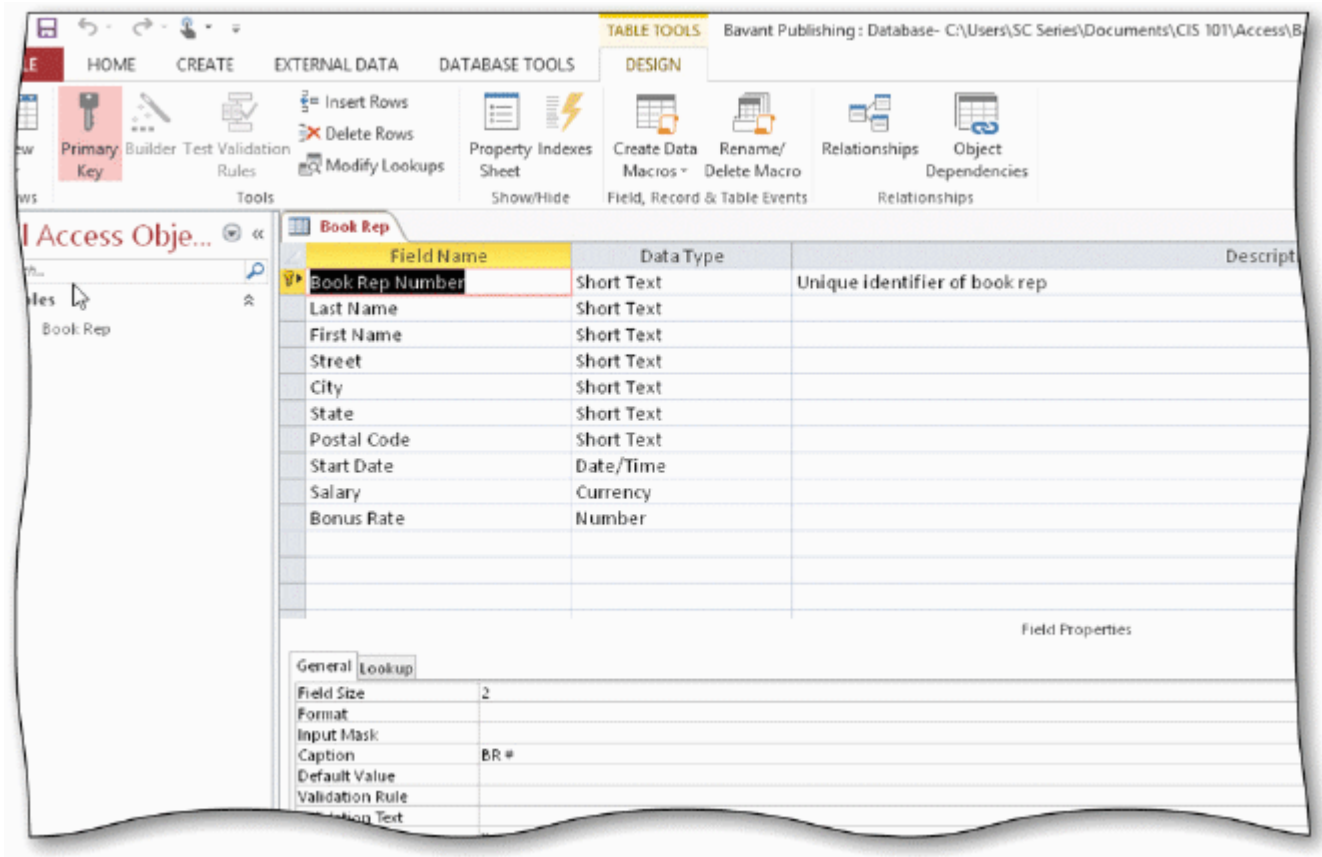
15. To undo the most recent change to a table structure, tap or click the ____ button on the Quick Access Toolbar.

a. Cancel	c. Back
b. Reverse	d. Undo

ANS: D PTS: 1 REF: AC 15

16. To delete a field in a table, press and hold or right-click the column heading for the field, and then tap or click ____ on the shortcut menu.

a. Remove Field	c. Delete Column
b. Delete Field	d. Remove Column



21. In the accompanying figure, the key symbol that appears in the row selector for the Book Rep Number field indicates that Book Rep Number is the ____ for the table.

- a. principal key
- b. foreign key
- c. main key
- d. primary key

ANS: D PTS: 1 REF: AC 17

22. In the accompanying figure, the Book Rep table displays in ____.

- a. Structure view
- b. Design view
- c. Layout view
- d. Table view

ANS: B PTS: 1 REF: AC 17

23. In the accompanying figure, the small box or bar to the left of each field is called the ____.

- a. row selector
- b. field selector
- c. field bar
- d. current field bar

ANS: A PTS: 1 REF: AC 18

24. To add a record to a table, tap or click the ____ record button.

- a. Add New
- b. New (blank)
- c. Last
- d. Insert (New)

ANS: B PTS: 1 REF: AC 23

25. You can place an insertion point by tapping or clicking in the field or by pressing ____.

- a. F2
- b. F3
- c. F4
- d. F5

ANS: A PTS: 1 REF: AC 23

26. To delete a record, tap or click the record selector for the record, and then press the ____ key(s).

- a. CTRL+DELETE
- b. CTRL+Y
- c. DELETE
- d. CTRL+K

ANS: C PTS: 1 REF: AC 23

27. To specify AutoCorrect rules and exceptions to the rules, tap or click FILE to open the Backstage view, tap or click ____, and then tap or click Proofing in the dialog box that displays.

- a. Customize
- b. Manage
- c. Options
- d. Grammar

ANS: C PTS: 1 REF: AC 23

28. To save the changes to the layout of a table, tap or click the Save button on the ____.

- a. status bar
- b. TABLE TOOLS tab
- c. Navigation Pane
- d. Quick Access Toolbar

ANS: D PTS: 1 REF: AC 28

29. To change the print orientation from portrait to landscape, tap or click the ____ button on the PRINT PREVIEW tab.

- a. Portrait/Landscape
- b. Orientation
- c. Switch Orientation
- d. Landscape

ANS: D PTS: 1 REF: AC 31

30. To import data to a table, tap or click the ____ tab on the ribbon.

- a. DATABASE TOOLS
- b. FILE
- c. EXTERNAL DATA
- d. IMPORT

ANS: C PTS: 1 REF: AC 33

31. To open the Navigation Pane, tap or click the ____ Button.

- a. Open Navigation Pane
- b. Open Pane
- c. Shutter Bar Open/Close
- d. Navigation Bar Show/Hide

ANS: C PTS: 1 REF: AC 40

32. To create a query using the Query Wizard, tap or click ____ on the ribbon and then click the Query Wizard button.

- a. CREATE
- b. INSERT
- c. NEW OBJECT
- d. REPORT

ANS: A PTS: 1 REF: AC 40

33. To view the results of a saved query, press and hold or right-click the query in the Navigation Pane and tap or click ____ on the shortcut menu.

- a. Datasheet View
- b. Open
- c. Results View
- d. Run

ANS: B PTS: 1 REF: AC 42-AC 43

34. To change the design of a query, press and hold or right-click the query in the Navigation Pane and then tap or click ____ on the shortcut menu.
- a. Open
 - b. SQL
 - c. Query Window
 - d. Design View

ANS: D PTS: 1 REF: AC 42

35. To create an initial report that can be modified in Layout view, tap or click ____ on the CREATE tab.
- a. Layout
 - b. Report Layout
 - c. Report
 - d. Simple Report

ANS: C PTS: 1 REF: AC 49

36. To exit Access, tap or click the ____ button on the right side of the title bar.
- a. Quit
 - b. Stop
 - c. End
 - d. Close

ANS: D PTS: 1 REF: AC 56

37. To back up the database that is currently open, use the ____ command on the Save As tab in the Backstage view.
- a. Close and Back Up
 - b. Back Up Current
 - c. Save As Back Up
 - d. Back Up Database

ANS: D PTS: 1 REF: AC 56

38. To compact and repair a database, tap or click the ____ button in the Info gallery in the Backstage view.
- a. Restore
 - b. Fix
 - c. Compaction
 - d. Compact & Repair

ANS: D PTS: 1 REF: AC 57

39. To delete a database object, press and hold or right-click the object in the Navigation Pane and then tap or click ____ on the shortcut menu.
- a. Erase
 - b. Trash
 - c. Delete
 - d. Remove

ANS: C PTS: 1 REF: AC 58

40. To rename a database object, press and hold or right-click the object in the Navigation Pane and then tap or click ____ on the shortcut menu.
- a. New Name
 - b. Redefine
 - c. Rename
 - d. Save Name

ANS: C PTS: 1 REF: AC 58

MULTIPLE RESPONSE

Modified Multiple Choice

1. File names cannot contain a(n) ____.

- a. question mark (?)
- b. colon (:)
- c. space
- d. underscore (_)

ANS: A, B PTS: 1 REF: AC 7

2. Field names cannot contain ____.

- a. square brackets ([])
- b. periods (.)
- c. hyphens (-)
- d. accent graves (`)

ANS: A, B, D PTS: 1 REF: AC 8

3. The Access window consists of a variety of components. These include the ____.

- a. Navigation Pane
- b. Content pane
- c. Object tabs
- d. Quick Access Toolbar

ANS: A, C, D PTS: 1 REF: AC 8

4. A field with a Yes/No data type can store only one of two values. The choices are ____.

- a. True/False
- b. One/Zero
- c. Yes/No
- d. On/Off

ANS: A, C, D PTS: 1 REF: AC 9

5. You can create a table in ____.

- a. Design view
- b. Blank view
- c. Layout view
- d. Datasheet view

ANS: A, D PTS: 1 REF: AC 10

TRUE/FALSE

1. In Access, the columns in a table are called records.

ANS: F PTS: 1 REF: AC 3

2. A unique identifier also is called a primary key.

ANS: T PTS: 1 REF: AC 3

3. In Access, field names cannot contain digits.

ANS: F PTS: 1 REF: AC 8

4. The Navigation Pane contains a list of all the objects in the database.

ANS: T PTS: 1 REF: AC 8

5. In Datasheet view, a table is represented as a collection of rows and columns called a list.

ANS: F PTS: 1 REF: AC 8

6. The maximum number of characters allowed in a field whose data type is Short Text is 255 characters.

ANS: T PTS: 1 REF: AC 9

7. Fields that contain numbers but will not be used for arithmetic operations usually are assigned a data type of Memo.

ANS: F PTS: 1 REF: AC 9

8. The Currency data type is used for fields that contain only monetary data.

ANS: T PTS: 1 REF: AC 9

9. The Character data type is used for a field that can store a variable amount of text or combinations of text and numbers where the total number of characters may exceed 255.

ANS: F PTS: 1 REF: AC 9

10. When Access first creates a database, it automatically creates a table.

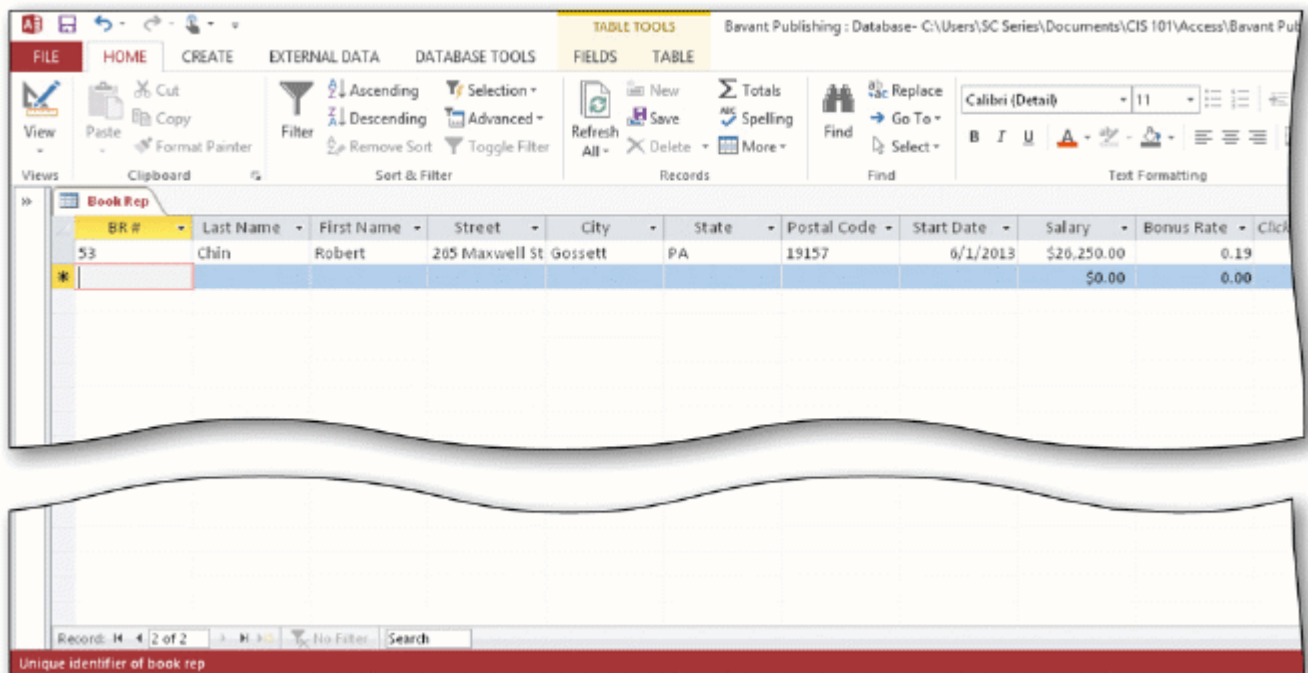
ANS: T PTS: 1 REF: AC 11

11. One way to undo changes to a field is to click the Undo button on the status bar.

ANS: F PTS: 1 REF: AC 15

12. The AutoError Correction feature of Access corrects common data entry errors.

ANS: F PTS: 1 REF: AC 23



13. As shown in the accompanying figure, you can move to the end of a table to a position for entering a new record by clicking the Insert record Navigation button.

25. Redundancy means storing the same fact in more than one place.

ANS: T

PTS: 1

REF: AC 62

MODIFIED TRUE/FALSE

1. The term list database describes a database that consists of a collection of tables, each of which contains information on a specific subject. _____

ANS: F, relational

PTS: 1

REF: AC 2

2. A field that has the Calculated data type can store a unique sequential number that Access assigns to a record. _____

ANS: F, AutoNumber

PTS: 1

REF: AC 9

3. To change the name of a field, press and hold or right-click the column heading for the field, and then tap or click Rename Field on the shortcut menu. _____

ANS: T

PTS: 1

REF: AC 15

4. To insert a field between existing fields, press and hold or right-click the column heading for the field that will follow the new field, and then tap or click Insert Column on the shortcut menu. _____

ANS: F, Field

PTS: 1

REF: AC 15-AC 16

5. To delete a field, press and hold or right-click the column heading for the field, and then tap or click Remove Field on the shortcut menu. _____

ANS: F, Delete

PTS: 1

REF: AC 15

COMPLETION

1. A(n)_____ is software that can be used to create a database; add, change, and delete data in the database; ask and answer questions concerning the data in the database; and create forms and reports using the data.

ANS: database management system

PTS: 1

REF: AC 2

2. The rows in the tables are called _____.

ANS: records

PTS: 1 REF: AC 3

3. A(n) _____ contains a specific piece of information within a record.

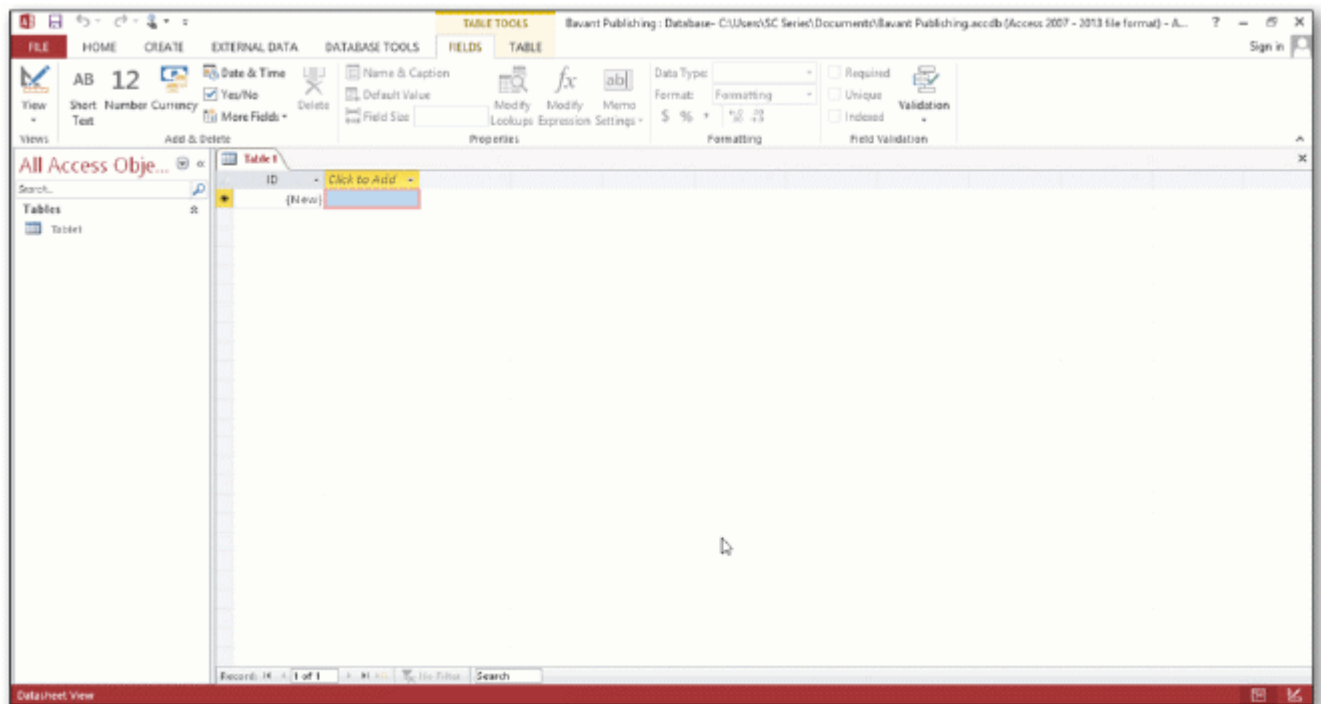
ANS: field

PTS: 1 REF: AC 3

4. A unique identifier also is called a(n) _____.

ANS: primary key

PTS: 1 REF: AC 3



5. In the accompanying figure, the _____ Pane contains a list of all the objects in the database.

ANS: Navigation

PTS: 1 REF: AC 7

6. In the accompanying figure, the words Datasheet View at the lower left of the screen appear on the _____.

ANS: status bar

PTS: 1 REF: AC 7

7. In the accompanying figure, the entire area that displays on the screen is called the _____ work area.

ANS: Access

PTS: 1 REF: AC 7

8. In the accompanying figure, _____ for the open objects appear at the top of the work area.

ANS: object tabs

PTS: 1 REF: AC 7

9. In the accompanying figure, the database name, Bavant Publishing appears on the _____.

ANS: title bar

PTS: 1 REF: AC 7

10. In the accompanying figure, the buttons at the bottom-right edge of the screen are _____ buttons, which you use to change the view that is currently displayed.

ANS: View

PTS: 1 REF: AC 7

11. The _____ data type in Access is referred to as Money in SQL Server.

ANS: Currency

PTS: 1 REF: AC 9

12. The Short Text data type replaces the _____ data type in previous editions of Access.

ANS: Text

PTS: 1 REF: AC 9

13. _____ view has more functionality for creating a table than Datasheet view.

ANS: Design

PTS: 1 REF: AC 10

14. To define an additional field in Datasheet view, tap or click the _____ column heading, select the data type, and then type the field name.

ANS: Click to Add

PTS: 1 REF: AC 14

15. To insert a field between existing fields, press and hold or right-click the column heading for the field that will follow the new field, and then tap or click _____ on the shortcut menu.

ANS: Insert Field

PTS: 1 REF: AC 15-AC 16

16. Society encourages users to contribute to _____ computing, which involves reducing the electricity consumed and environmental waste generated when using computers, mobile devices, and related technologies.

ANS: green

PTS: 1 REF: AC 29

17. A hard copy or _____ is information that exists on a physical medium such as paper.

ANS: printout

PTS: 1 REF: AC 29

18. _____ refers to the process of determining the tables and fields that make up the database.

ANS: Database design

PTS: 1 REF: AC 58

19. The determination of database requirements is part of a process known as _____.

ANS: systems analysis

PTS: 1 REF: AC 58

20. Designing to omit _____ will help to produce good and valid database designs.

ANS: redundancy

PTS: 1 REF: AC 63

MATCHING

Identify the letter of the choice that best matches the phrase or definition.

- | | |
|----------------|-------------|
| a. AutoNumber | f. Currency |
| b. Layout view | g. Metadata |

- | | |
|----------------|------------------|
| c. DBDL | h. Print Preview |
| d. Report view | i. Short Text |
| e. Long Text | j. status bar |

- Field can store a variable amount of text or combinations of text and numbers where the total number of characters may exceed 255.
- Presents information about the database object, the progress of current tasks, and the status of certain commands and keys.
- Field can contain any characters and the total numbers of characters cannot exceed 255.
- Field can contain only monetary data.
- Field can store a unique sequential number that Access assigns to the record.
- A commonly accepted shorthand representation for showing the structure of a relational database.
- View that shows a report as it will appear when printed.
- View that shows a report on the screen and allows changes to the report.
- View that shows a report on the screen and does not allow changes to the report.
- Can include such information as the file's author, title, or subject.

- | | | |
|------------|--------|------------|
| 1. ANS: E | PTS: 1 | REF: AC 9 |
| 2. ANS: J | PTS: 1 | REF: AC 8 |
| 3. ANS: I | PTS: 1 | REF: AC 9 |
| 4. ANS: F | PTS: 1 | REF: AC 9 |
| 5. ANS: A | PTS: 1 | REF: AC 9 |
| 6. ANS: C | PTS: 1 | REF: AC 58 |
| 7. ANS: H | PTS: 1 | REF: AC 50 |
| 8. ANS: B | PTS: 1 | REF: AC 50 |
| 9. ANS: D | PTS: 1 | REF: AC 50 |
| 10. ANS: G | PTS: 1 | REF: AC 54 |

ESSAY

- Discuss the difference between the way Access saves a record and the way Excel saves a row in a worksheet.

ANS:

In Access, as soon as you move to another record, the record is saved. No separate save step exists. In Excel, data entered into rows is not saved until the entire worksheet is saved.

PTS: 1 REF: AC 22 TOP: Critical Thinking

Customer Number	Customer Name	Street	...	Book Rep Number	Last Name	First Name
ASU37	Applewood State University	300 University Ave.	...	42	Perez	Melina
BCJ21	Brodkin Junior College	4806 Park Dr.	...	42	Perez	Melina
CSD25	Cowpens ISD	829 Wooster Ave.	...	53	Chin	Robert
CSU10	Camellia State University	725 Camellia St.	...	53	Chin	Robert
DCC34	Dartt Community College	3827 Burgess Dr.	...	65	Rogers	Tracy
...

2. In the accompanying figure, book rep names appear more than once in the table. Storing this data on multiple records is an example of redundancy which can cause several problems.

What are these problems? What is the solution to the problem?

ANS:

Redundancy causes the following problems:

- 1. Wasted storage space. The same name is stored more than once. It should be stored only once.*
- 2. More complex database updates. If the same name is stored more than once and the individual's name changes, then the name would need to be changed in several different places.*
- 3. A possibility of inconsistent data. There is nothing to prohibit a name being changed on one record and not on another.*

The solution to the problem is to place the redundant data in a separate table.

PTS: 1

REF: AC 63

TOP: Critical Thinking

3. When you create a database, you should follow some general guidelines for database design. What are these nine guidelines?

ANS:

The nine guidelines are:

- 1. Identify the tables that will be included in the database.*
- 2. Determine the primary keys for each of the tables.*
- 3. Determine the additional fields that should be included in each of the tables.*
- 4. Determine relationships between the tables.*
- 5. Determine data types for the fields in the tables.*
- 6. Determine additional properties for fields.*
- 7. Identify and remove any unwanted redundancy.*
- 8. Determine a storage location for the database.*
- 9. Determine the best method for distributing the database objects.*

PTS: 1

REF: AC 64

TOP: Critical Thinking

CASE

Critical Thinking Questions

Case 1-1

Joe has been asked to create a Special Projects database for his company. The database is to track employees and the special projects to which the employees may be assigned. A special project can have between 2 and 5 employees assigned to it. He has determined that he needs the following tables:

Employee (Social Security Number, Last Name, First Name, Street Address, City, State,
Postal Code, Hourly Pay Rate, Project Code)

Project (Project Code, Project Name, Total Hours, Completion Date)

1. Which field in the Employee table should be the primary key and why?

ANS:

Social Security Number should be the primary key because the values in the field will be unique for each record.

PTS: 1 REF: AC 60 TOP: Critical Thinking

2. Which field in the Project table should be the primary key and why?

ANS:

Project Code should be the primary key because you can assign unique values to the field.

PTS: 1 REF: AC 60 TOP: Critical Thinking

Critical Thinking Questions

Case 1-2

Now that Joe has created the tables and determined the primary and foreign keys, he needs to determine the data types for the fields in each table.

3. What data type should Joe use for the Completion Date field?

ANS:

Joe should use the Date & Time data type because dates will be stored in the field.

PTS: 1 REF: AC 9 TOP: Critical Thinking

4. What data type should Joe use for the Social Security Number field? Why?

ANS:

Joe should use the Short Text data type. Even though the field contains numbers, the field will not be used for arithmetic operations.

PTS: 1 REF: AC 9 TOP: Critical Thinking