Concepts of Database Management 9th Edition Starks Test Bank

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Chapter 01: Introduction to Database Management

1. Redundancy wastes space because you are storing multiple copies of the same data. a. True b. False ANSWER: True **POINTS:** 1 DIFFICULTY: Easy REFERENCES: BITS Company Background 2. Redundancy makes changing data more cumbersome and time-consuming. a. True b. False **ANSWER:** True **POINTS**: 1 DIFFICULTY: Easy REFERENCES: BITS Company Background 3. An entity is a person, place, object, event, or idea for which you want to store and process data. a. True b. False ANSWER: True **POINTS:** 1 DIFFICULTY: Easy **REFERENCES:** Database Terminology 4. A client is an example of an attribute. a. True b. False **ANSWER:** False **POINTS:** 1 DIFFICULTY: Easy **REFERENCES:** Database Terminology 5. An attribute is known as a row in most databases. a. True b. False **ANSWER:** False **POINTS**: DIFFICULTY: Easy REFERENCES: Database Terminology 6. A database will not only hold information about multiple types of entities, but also information about the

- relationships among these multiple entities.
 - a. True
 - b. False

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ANSWER: True POINTS: 1
DIFFICULTY: Easy

REFERENCES: Storing Data

- 7. Each table in a database represents two or more entities.
 - a. True
 - b. False

ANSWER: False
POINTS: 1
DIFFICULTY: Easy

REFERENCES: Storing Data

- 8. The relationship between different entities (in different tables) is handled by their common columns.
 - a. True
 - b. False

ANSWER: True POINTS: 1
DIFFICULTY: Easy

REFERENCES: Storing Data

- 9. Users never interact with a database directly; database interaction is always through the DBMS.
 - a. True
 - b. False

ANSWER: True POINTS: 1

DIFFICULTY: Moderate

REFERENCES: Database Management Systems

- 10. Programs created with Visual Basic, Java, Perl, PHP, or C++ can interact with the database directly.
 - a. True
 - b. False

ANSWER: False
POINTS: 1
DIFFICULTY: Easy

REFERENCES: Database Management Systems

- 11. A spreadsheet is a screen object used to maintain and view data from a database.
 - a. True
 - b. False

ANSWER: False
POINTS: 1
DIFFICULTY: Easy

REFERENCES: Database Management Systems

- 12. Increased complexity is one advantage of database processing.
 - a. True
 - b. False

ANSWER: False
POINTS: 1
DIFFICULTY: Easy

REFERENCES: Advantages of Database Processing

- 13. An advantage of using the database approach to processing is that it facilitates consistency.
 - a. True
 - b. False

ANSWER: True POINTS: 1
DIFFICULTY: Easy

REFERENCES: Advantages of Database Processing

- 14. If a user is authorized to access database data, the user will always be able to make changes to the data.
 - a. True
 - b. False

ANSWER: False POINTS: 1
DIFFICULTY: Easy

REFERENCES: Advantages of Database Processing

- 15. There is a greater impact of failure in a nondatabase, file-oriented system.
 - a. True
 - b. False

ANSWER: False POINTS: 1

DIFFICULTY: Moderate

REFERENCES: Disadvantages of Database Processing

- 16. Which term can be described as the duplication of data and storing it in multiple locations?
 - a. data independence
 - b. redundancy
 - c. data integrity
 - d. security

ANSWER: b
POINTS: 1
DIFFICULTY: Easy

REFERENCES: BITS Company Background

- 17. Which of the following is called a field or column in many database systems? a. attribute b. entity c. data file d. relationship ANSWER: **POINTS:** 1 DIFFICULTY: Easy REFERENCES: Database Terminology 18. Which database term is a person, place, object, event, or idea for which you want to store and process data? a. attribute b. DBMS c. entity d. DBA ANSWER: c **POINTS:** 1 DIFFICULTY: Easy **REFERENCES:** Database Terminology 19. In database terms, what is the analogy to an ordinary paper file you might keep in a file cabinet or an accounting ledger? a. database b. spreadsheet c. data file d. attribute **ANSWER: POINTS:** 1 DIFFICULTY: Easy REFERENCES: Storing Data 20. Which aspect of an entity becomes the columns in the database table? a. attributes b. relationships c. data files d. E-R diagrams **ANSWER: POINTS:** DIFFICULTY: Easy REFERENCES: Storing Data
- 21. How are multiple entities stored in a database?
 - a. each entity is stored as a row

- b. each entity is stored as an attribute
- c. each entity is stored as a table
- d. each entity is stored as a column

ANSWER: c
POINTS: 1
DIFFICULTY: Easy

REFERENCES: Storing Data

- 22. What tool can you use to visually represent and analyze a database?
 - a. multi-sheet workbook
 - b. DBMS table identifier
 - c. entity-relationship diagram
 - d. DBA column analyzer

ANSWER: c
POINTS: 1

DIFFICULTY: Moderate REFERENCES: Storing Data

- 23. What type of software programs are Access, Oracle, DB2, MySQL, and SQL Server?
 - a. E-R diagrams
 - b. DBAs
 - c. data files
 - d. DBMSs

ANSWER: d
POINTS: 1
DIFFICULTY: Easy

REFERENCES: Database Management Systems

- 24. During which process does a database expert determine the structure of the required database?
 - a. data security
 - b. database integrity
 - c. database design
 - d. database selection

ANSWER: c
POINTS: 1

DIFFICULTY: Moderate

REFERENCES: Database Management Systems

- 25. Which of the following are screen objects used to maintain, view, and print data from a database?
 - a. Fields
 - b. Forms
 - c. Data files

d. Entities

ANSWER: b
POINTS: 1
DIFFICULTY: Easy

REFERENCES: Database Management Systems

- 26. Which of the following statements is correct?
 - a. In a nondatabase, file-oriented environment, data is often partitioned into several disjointed systems with each system having its own collection of files.
 - b. User data cannot be combined and shared among authorized users.
 - c. Database users should not have access to the same information.
 - d. Controlling redundancy is easier with the nondatabase approach.

ANSWER: a POINTS: 1

DIFFICULTY: Moderate

REFERENCES: Advantages of Database Processing

- 27. Which type of rule ensures that changes made to the database do not result in a loss of data consistency?
 - a. redundancy constraint
 - b. integrity constraint
 - c. conflict requirement
 - d. security requirement

ANSWER: b
POINTS: 1

DIFFICULTY: Moderate

REFERENCES: Advantages of Database Processing

- 28. How does the use of a database facilitate data consistency?
 - a. by controlling redundancy
 - b. by reducing security
 - c. by eliminating integrity constraints
 - d. by providing data independence

ANSWER: a POINTS: 1

DIFFICULTY: Moderate

REFERENCES: Advantages of Database Processing

- 29. Which advantage of database processing makes it easier to make a change in the database structure?
 - a. data independence
 - b. integrity constraints
 - c. redundancy control
 - d. security controls

ANSWER: a

POINTS: 1

DIFFICULTY: Moderate

REFERENCES: Advantages of Database Processing

- 30. Which advantage of using a DBMS frees programmers who write database access programs from having to engage in mundane data manipulation activities, such as adding new data and deleting existing data?
 - a. controlling redundancy
 - b. referential integrity
 - c. data independence
 - d. increased productivity

ANSWER: d
POINTS: 1
DIFFICULTY: Easy

REFERENCES: Advantages of Database Processing

- 31. Which factor can mitigate the problems of increased complexity that come with using a DBMS?
 - a. writing complex access rules
 - b. using large file sizes
 - c. sound database design
 - d. using no integrity constraints

ANSWER: c
POINTS: 1

DIFFICULTY: Moderate

REFERENCES: Disadvantages of Database Processing

- 32. Which of the following is true about big data?
 - a. unstructured big data doesn't contain metadata
 - b. a Twitter tweet is an example of structured big data
 - c. all big data can be handled with traditional DBMS tools
 - d. big data may be structured or unstructured

ANSWER: d
POINTS: 1

DIFFICULTY: Moderate REFERENCES: Big Data

- 33. What should an administrator use to more easily assign database access permissions to multiple users?
 - a. groups
 - b. classes
 - c. attributes
 - d. clusters

ANSWER: a POINTS: 1

DIFFICULTY: Moderate

REFERENCES: Advantages of Database Processing

	base property lets you change the scess the database?	tructure of the database without requiring you to change the
a. database	design	
b. data inde	pendence	
c. integrity	constraint	
d. data dep		
ANSWER:	b	
POINTS:	1	
DIFFICULTY:	Difficult	
REFERENCES:	Advantages of Database Processing	
35. Which of th	e following is considered a disadv	antage of a database system?
a. a larger	ïle size	
b. data dep	endence	
c. reduced	integrity	
d. reduced	productivity	
ANSWER:	a	
POINTS:	1	
DIFFICULTY:	Easy	
REFERENCES:	Disadvantages of Database Processin	3
		etween two entities, an entity is associated with multiple
	ch as when a consultant is associa	ed with multiple clients.
ANSWER:	one-to-many	
POINTS:	1	
DIFFICULTY:		
REFERENCES:	Database Terminology	
37. A program, a(n)	or collection of programs, through management s	which users interact with a database is known as ystem.
ANSWER:	database	
POINTS:	1	
DIFFICULTY:	Easy	
REFERENCES:	Database Management Systems	
	iagram rectangles represent	.
ANSWER:	entities	
POINTS:	1	
DIFFICULTY:	•	
REFERENCES:	Storing Data	
39. In an E-R d	iagram, lines represent	between connected entities.

ANSWER:	relationships		
POINTS:			
DIFFICULTY:	Moderate		
REFERENCES:	Storing Data		
40.	describes the large volume of data produced by every digital process,		
	mobile device, and even social media exchange.		
ANSWER:	Big data		
POINTS:	1		
DIFFICULTY:	Easy		
REFERENCES:	Big Data		
41. A good DB	SMS provides data, which is a property that lets you change the		
structure of a d	atabase without requiring you to change the programs that access the database.		
ANSWER:	independence		
POINTS:	1		
DIFFICULTY:	Moderate		
REFERENCES:	Advantages of Database Processing		
42. The problem	m of inconsistency in data is a direct result of		
ANSWER:	redundancy		
POINTS:	1		
DIFFICULTY:	Easy		
REFERENCES:	Advantages of Database Processing		
43	integrity is a relational database concept stating that table relationships must be		
consistent and	follow integrity constraints.		
ANSWER:	Referential		
POINTS:	1		
DIFFICULTY:	Moderate		
REFERENCES:	Advantages of Database Processing		
44	data is not organized or easily interpreted by traditional databases or data		
models.			
ANSWER:	Unstructured		
POINTS:	1		
DIFFICULTY:	Moderate		
REFERENCES:	Big Data		
45. A database <i>ANSWER:</i>	file requires a large amount of disk space and internal memory		
POINTS:	1		
DIFFICULTY:			
	Advantages of Database Processing		

46. List the advantages of database processing.

ANSWER: Getting more information from the same amount of data

Sharing data

Balancing conflicting requirements

Controlling redundancy Facilitating consistency Improving integrity **Expanding security** Increasing productivity Providing data independence

POINTS:

DIFFICULTY: Difficult

REFERENCES: Advantages of Database Processing

47. Explain why it is better to try to control redundancy rather than eliminate it.

ANSWER: Although eliminating redundancy is the ideal, it is not always possible. Sometimes, for reasons having to

do with performance, you might choose to introduce a limited amount of redundancy into a database. However, even in these cases, you would be able to keep the redundancy under tight control, thus obtaining the same advantages. This is why it is better to say that you control redundancy rather than

eliminate it.

POINTS:

1

DIFFICULTY: Difficult

REFERENCES: Advantages of Database Processing

48. Discuss how the database approach and the nondatabase approach differ in terms of ensuring the security of the database.

ANSWER:

A DBMS has many features that help ensure the enforcement of security measures. For example, a DBA can assign passwords to authorized users; then only those users who enter an acceptable password can gain access to the data in the database. Further, a DBMS lets you assign users to groups, with some groups permitted to view and update data in the database and other groups permitted only to view certain data in the database. With the nondatabase approach, you have limited security features and are more vulnerable to intentional and accidental access and changes to data.

POINTS:

DIFFICULTY: Difficult

REFERENCES: Advantages of Database Processing

49. List the disadvantages of database processing.

ANSWER: Larger file size

Increased complexity Greater impact of failure More difficult recovery

POINTS:

DIFFICULTY: Moderate

REFERENCES: Disadvantages of Database Processing

50. Explain why the impact of failure is greater in database processing, compared with the nondatabase approach.

ANSWER: In a nondatabase, file-oriented system, each user has a completely separate system; the failure of any

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Chapter 01: Introduction to Database Management

single user's system does not necessarily affect any other user. On the other hand, if several users are sharing the same database, a failure on the part of any one user that damages the database in some way might affect all the other users.

POINTS: 1

DIFFICULTY: Difficult

REFERENCES: Disadvantages of Database Processing