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Chapter 01: Introdicetion 16-Danabate Wights Languagement-9e-starks

-		
1. Redundancy waste	s space because	e 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	s 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 perso	on, place, object	t, 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 exam	ple of an attrib	ute.
	a.	True
	b.	False
ANSWER:		False
POINTS:		1
DIFFICULTY:		Easy
REFERENCES:		Database Terminology
5. An attribute is known	wn as a row in	most databases.
	a.	True
	b.	False
ANSWER:		False
POINTS:		1
DIFFICULTY:		Easy
REFERENCES:		Database Terminology
	•	rmation about multiple types of entities, but also information about the
relationships among t		True
	a. L	False
	b.	raise

ANSWER: True **POINTS**: 1 DIFFICULTY: Easy REFERENCES: Storing Data 7. Each table in a database represents two or more entities. True a. False b. False ANSWER: **POINTS**: 1 **DIFFICULTY**: **Easy** Storing Data **REFERENCES**: 8. The relationship between different entities (in different tables) is handled by their common columns. True a. 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. True a. b. False ANSWER: True **POINTS**: **DIFFICULTY**: Moderate REFERENCES: Database Management Systems 10. Programs created with Visual Basic, Java, Perl, PHP, or C++ can interact with the database directly. True a. False b. False ANSWER: **POINTS**: 1 DIFFICULTY: **Easy** REFERENCES: **Database Management Systems** 11. A spreadsheet is a screen object used to maintain and view data from a database. True a. b. False ANSWER: False **POINTS**: 1

DIFFICULTY:

Easy

REFERENCES: **Database Management Systems** 12. Increased complexity is one advantage of database processing. True a. False b. False ANSWER: 1 **POINTS**: DIFFICULTY: Easy REFERENCES: Advantages of Database Processing 13. An advantage of using the database approach to processing is that it facilitates consistency. True a. False b. 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. True a. 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. True a. False b. False ANSWER: **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? data independence a. b. redundancy data integrity c. d. security ANSWER: b **POINTS**: 1 Easy DIFFICULTY:

BITS Company Background

REFERENCES:

17. Which of the	following	is called a field or c	olumn in many database systems?
	a.	attribute	
	b.	entity	
	c.	data file	
	d.	relationship	
ANSWER:			a
POINTS:			1
DIFFICULTY:			Easy
REFERENCES:			Database Terminology
18. Which databa	ase term is	a person, place, obje	ect, 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 te accounting ledge:		is the analogy to an	ordinary paper file you might keep in a file cabinet or an
accounting ledge	a.	database	
	b.	spreadsheet	
	c.	data file	
	d.	attribute	
ANSWER:		311110 3110	c
POINTS:			1
DIFFICULTY:			Easy
REFERENCES:			Storing Data
20. Which aspect	of an enti	ty becomes the colu	mns in the database table?
. 1	a.	attributes	
	b.	relationships	
	c.	data files	
	d.	E-R diagrams	
ANSWER:	u.	L K diagrams	a
POINTS:			1
DIFFICULTY:			Easy
REFERENCES:			Storing Data
REI EREIVCES.			Storing Data
21. How are mult	tiple entitie	es stored in a databa	se?

a.

each entity is stored as a row

b.	each enti	ty is stored as an attribu	ite	
c.	each enti	ty is stored as a table		
d.	each enti	ty is stored as a column	L	
ANSWER:			c	
POINTS:			1	
DIFFICULTY:			Easy	
REFERENCES:			Storing Data	
22. What tool c	an you use	e to visually represent a	nd analyze a database?	
a.	multi-	-sheet workbook		
b.	DBM	S table identifier		
c.	entity	entity-relationship diagram		
d.	DBA	column analyzer		
ANSWER:			c	
POINTS:			1	
DIFFICULTY:			Moderate	
REFERENCES:			Storing Data	
ANSWER: POINTS: DIFFICULTY: REFERENCES:	c. d.	data files DBMSs d 1 Easy Database	Management Systems	
24 D : 1:	1			
24. During will	a.	data security	determine the structure of the required database?	
	b.	database integrity		
	c.	database design		
	d.	database selection		
ANSWER:	u.	c c		
POINTS:		1		
DIFFICULTY:		Moderate		
REFERENCES:			Management Systems	
25 Which of th	ne followin	ng ara seraan objects us	ed to maintain, view, and print data from a database?	
23. WINCH OF U	a.	ig are screen objects use Fields	to maintain, view, and print data from a database?	
	а. b.	Forms		
	c.	Data files		

d. **Entities** b *ANSWER:* **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: **POINTS**: 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? redundancy constraint a. b. integrity constraint conflict requirement c. d. security requirement ANSWER: h **POINTS**: 1 DIFFICULTY: Moderate Advantages of Database Processing *REFERENCES*: 28. How does the use of a database facilitate data consistency? by controlling redundancy a. b. by reducing security by eliminating integrity constraints c. d. by providing data independence ANSWER: **POINTS**: 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.

ANSWER:

security controls

1

POINTS:

DIFFICULTY:		Moderate		
REFERENCES:		Advantages of Database	e Processing	
	_		s who write database access programs from hadding new data and deleting existing data?	aving to
a		g redundancy		
b	. referential	integrity		
c	. data indep	endence		
d	. increased p	productivity		
ANSWER:		d		
POINTS:		1		
DIFFICULTY:		Easy		
REFERENCES:		Advantages of Database	e Processing	
31. Which factor	or can mitigate the	e problems of increased co	omplexity that come with using a DBMS?	
a.	writing compl	lex access rules		
b.	using large fil	le sizes		
c.	sound databas	se design		
d.	using no integ	grity constraints		
ANSWER:		c		
POINTS:		1		
DIFFICULTY:		Moderate		
REFERENCES:		Disadvantages of Databas	se Processing	
32. Which of th	ne following is tru	ne about big data?		
	=	doesn't contain metadata		
	_	example of structured big	data	
		ndled with traditional DB		
	=	etured or unstructured	2 00 0.10	
ANSWER:	add may so sirde		d	
POINTS:			1	
DIFFICULTY:			Moderate	
REFERENCES:			Big Data	
33. What shoul	d an administrato	or use to more easily assign	n database access permissions to multiple use	rs?
	a.	groups	1	
	b.	classes		
	c.	attributes		
	d.	clusters		
ANSWER:		a		
POINTS:		1		
DIFFICULTY:		Moderate		
	e Learning Powered by			Page 7

REFERENCE	S:	Advantages of Database Processing		
	_	property lets you change the sthe database?	structure of the database without requiring you to change the	
	a.	database design		
	b.	data independence		
	c.	integrity constraint		
	d.	data dependence		
ANSWER:		ь		
POINTS:		1		
DIFFICULTY.	:	Difficult		
REFERENCE	EFERENCES: Advantages of Database Processing			
35. Which of	the follo	owing is considered a disadv	antage of a database system?	
	a.	a larger file size		
	b.	data dependence		
	c.	reduced integrity		
	d.	reduced productivity		
ANSWER:		a		
POINTS:		1		
DIFFICULTY	:	Easy		
REFERENCE	S:	Disadvantages of	of Database Processing	
36. In a(n) other entities <i>ANSWER</i> :	such as	when a consultant is associa	between two entities, an entity is associated with multiple ted with multiple clients. ne-to-many	
POINTS:		1	ne-to-many	
DIFFICULTY.	·,	\ \	Moderate	
REFERENCES:			Oatabase Terminology	
				
		1 0	n which users interact with a database is known as	
a(n)		management s	system.	
POINTS:		database 1		
DIFFICULTY.	·.	Easy		
REFERENCE		•	Management Systems	
KEI EKEIVEE	0.	Database I	ranagement bystems	
38. In an E-R	diagran	n rectangles represent		
ANSWER:			entities	
POINTS:			1	
DIFFICULTY.	:		Easy	
REFERENCE	S:		Storing Data	
39. In an E-R	l diagrar	n, lines represent	between connected entities.	

ANSWER:	relationships
POINTS:	1
DIFFICULTY:	Moderate
REFERENCES:	Storing Data
40.	_ describes the large volume of data produced by every digital process,
system, sensor, mobile device, and	l even social media exchange.
ANSWER:	Big data
POINTS:	1
DIFFICULTY:	Easy
REFERENCES:	Big Data
41. A good DBMS provides data _	, which is a property that lets you change the
structure of a database without req	uiring you to change the programs that access the database.
ANSWER:	independence
POINTS:	1
DIFFICULTY:	Moderate
REFERENCES:	Advantages of Database Processing
42. The problem of inconsistency	in data is a direct result of
ANSWER:	redundancy
POINTS:	1
DIFFICULTY:	Easy
REFERENCES:	Advantages of Database Processing
43 integ	rity is a relational database concept stating that table relationships must be
consistent and follow integrity con	nstraints.
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 file requires a large	e amount of disk space and internal
ANSWER:	memory
POINTS:	1
DIFFICULTY:	Easy
REFERENCES:	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

Advantages of Database Processing REFERENCES:

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.

Larger file size ANSWER:

> 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

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