Concepts Of Database Management 7th Edition Pratt Test Bank

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Chapter 1: Introduction to Database Management

TRUE/FALSE

1.	Redundancy wastes s	space be	ecause you are	storing	the same data in more than one place.
	ANS: T	PTS:	1	REF:	2
2.	A spreadsheet's data- the same time.	-sharing	g features allow	s multi	ple employees to update data in one spreadsheet at
	ANS: F	PTS:	1	REF:	2-3
3.	An attribute is a char	acterist	ic or property o	f an en	tity.
	ANS: T	PTS:	1	REF:	4
4.	A relationship is an a	ssociati	on between att	ributes.	
	ANS: F	PTS:	1	REF:	5
5.	A database will not of the relationships amount				ultiple types of entities, but also information about
	ANS: T	PTS:	1	REF:	5
6.	In a database, each each	ntity ha	s its own table.		
	ANS: T	PTS:	1	REF:	5
7.	The attributes of an e	entity be	ecome the rows	in the t	table
	ANS: F	PTS:	1	REF:	5
8.	In an entity-relations between connected e		R) diagram, rec	tangles	represent entities and lines represent relationships
	ANS: T	PTS:	1	REF:	9
9.	Programs created with Visual Basic, Java, Perl, PHP, or C++ can access the database directly, rather than having to access it through the DBMS.				
	ANS: F	PTS:	1	REF:	10
10.	Sharing data is one a	dvantag	e of database p	rocessi	ng.
	ANS: T	PTS:	1	REF:	12
11.	Eliminating redundancy is always possible when using a database approach.				
	ANS: F	PTS:	1	REF:	13

12.	A database cannot be password protected to prevent unauthorized users from accessing the data.						
	ANS: F	PTS:	1	REF:	13		
13.	There is a greater im	pact of	failure in a	nondatabas	e, file-oriented system.		
	ANS: F	PTS:	1	REF:	14		
14.	A good DBMS provides integrity constraints, which are features that let you change the structure of the database without changing the programs that access the database.						
	ANS: F	PTS:	1	REF:	14		
15.	To support all the complex functions that it provides to users, a DBMS must store data in multiple files.						
	ANS: F	PTS:	1	REF:	14		
MUL'	TIPLE CHOICE						
1.	Storing the same dat		re than one	-			
	a. data independent	ce			redundancy		
	b. data integrity			u.	security		
	ANS: C	PTS:	1	REF:	2		
2.	A(n) is a person, place, object, event, or idea for which you want to store and process data.						
	a. attribute				entity		
	b. DBMS			d.	DBA		
	ANS: C	PTS:	1	REF:	4		
3.	A(n) is a character	cteristic	or property	of an entit	v.		
	a. attribute		1 1 3		datapoint		
	b. constraint			d.	record		
	ANS: A	PTS:	1	REF:	4		
4.		nputer c	ounterpart t	o an ordina	ry paper file you might keep in a file cabinet or ar		
	accounting ledger. a. spreadsheet			c.	data file		
	b. database			d.			
	ANS: C	PTS:	1	REF:			
5	The of an antity	r, haaan		na in tha d	otobogo toblo		
5.	The of an entity a. E-R diagrams	y decom	ie the colum	ms m me a c.			
	b. tuples				attributes		
	ANS: D	PTS:	1	REF:			
6.	An association between	een enti	ties is know	n as a(n)			
٠.	a. integrity constraint			c.			
	b. relationship			d.			

	ANS: B	PTS:	1	REF:	5
7.	A visual way to repre a. spreadsheet b. DBMS	esent a o	database is with	c.	DBA entity-relationship diagram
	ANS: D	PTS:	1	REF:	9
8.	Popular include a. E-R diagrams b. DBAs	Acces	s, Oracle, DB2,		DBMSs
	ANS: C	PTS:	1	REF:	10
9.	During the proca. data security b. database integrity		latabase expert	c.	ines the structure of the required database. database design database selection
	ANS: C	PTS:	1	REF:	10
10.	are screen object a. Forms b. Fields	ets used	l to maintain, vi	c.	l print data from a database. Data files Entities
	ANS: A	PTS:	1	REF:	10
11.		, file-orns with be com	iented environi each system ha abined and shar ot have access	nent, daving its ed amonto the sa	ame information.
	ANS: A	PTS:	1	REF:	12-13
12.	An integrity constraint a. is kept in an external b. can unintentional c. can be accessed a data must follow	rnal file ly be a only by	e ccessed by unar authorized use		ed users
	ANS: D	PTS:	1	REF:	13
13.	A database has a. redundancy b. integrity	if the d	ata in it satisfie	c.	ablished integrity constraints. data independence database design
	ANS: B	PTS:	1	REF:	13
14.	is the preventiona. Data independentb. Integrity constrain	ce	authorized acce	c.	e database. Redundancy Security
	ANS: D	PTS:	1	REF:	13

15.				new da	access programs from having to engage in mundane and deleting existing data. entity DBMS	
	ANS: D	PTS:	1	REF:	13	
16.	A person who is in a. writer b. administrator	charge of	a database with		organization is often called the database designer controller	
	ANS: B	PTS:	1	REF:	13	
17.	A good should provide an opportunity for users to incorporate integrity constraints when they					
	design the database. a. database admini b. DBA				E-R diagram DBMS	
	ANS: D	PTS:	1	REF:	13	
18.	A DBMS lets you assign users to					
	a. groupsb. classes			c. d.	attributes clusters	
	ANS: A	PTS:	1	REF:	13	
19.	is a property the programs that aca. Data independe	ccess the o	-		e of the database without requiring you to change Database design	
	b. Integrity constra			d.		
	ANS: A	PTS:	1	REF:	14	
20.	One disadvantage o a. a larger file size b. data dependence	;	se system is	c.	reduced integrity reduced productivity	
	ANS: A	PTS:	1	REF:	14	
COM	PLETION					
		ation of m	ma amama the	ah whi	ch years interest with a database is known as a(n)	
1.	A program, or cone	•		ign win	ch users interact with a database is known as a(n)	
	ANS: DBMS database manageme database manageme DBMS (database m	nt system	(DBMS)			
	PTS: 1	REF:	9			
2.	In an E-R diagram,			_ repres	sent entities.	
	ANS: rectangles					

	PTS: 1		REF:	9
3.	In an E-I	R diagram, _		represent relationships between connected entities.
	ANS: li	ines		
	PTS: 1		REF:	9
4.	In an E-I	R diagram, th	ie ship bet	at the end of a line indicates the "many" part of the ween two entities.
	ANS: d	ot		
	PTS: 1		REF:	9
5.		of people in	_	of a database within an organization is often called the
	database	e administratio e administratio atabase admin	on (DB	
	PTS: 1		REF:	13
6.	The prob	olem of incon	sistenc	y in data is a direct result of
	ANS: re	edundancy		
	PTS: 1		REF:	13
7.	Eliminat much sir			not only saves space but also makes the process of updating data
	ANS: re	edundancy		
	PTS: 1		REF:	13
8.	A good _database	without havi	ing to d	has many features that allow users to gain access to data in a o any programming.
	database	e management e management (database mar	t systen	n (DBMS)
	PTS: 1		REF:	13
9.	A databa	ase file requir	es a lar	ge amount of disk space and internal
	ANS: m	nemory		

PTS: 1 REF: 14

10. In a(n) ______ relationship between two entities, each occurrence of the first entity is related to many occurrences of the second entity and each occurrence of the second entity is related to only one occurrence of the first entity.

ANS: one-to-many one to many

ESSAY

1. List the advantages of database processing.

ANS:

PTS: 1

Getting more information from the same amount of data Sharing data
Balancing conflicting requirements
Controlling redundancy
Facilitating consistency
Improving integrity
Expanding security
Increasing productivity

REF: 28

PTS: 1 REF: 12

Providing data independence

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

ANS:

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.

PTS: 1 REF: 13

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

ANS:

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.

PTS: 1 REF: 13

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4. List the disadvantages of database processing.

ANS:

Larger file size Increased complexity Greater impact of failure More difficult recovery

PTS: 1 REF: 14

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

ANS:

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.

PTS: 1 REF: 14