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Chapter 2: The Relational Model 1: Introduction, OBE, and

Relational Algebra True / False

1. A relational database handles entities, attributes, and rel	elationships by storing each entity in its own table.
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a. True

b. False

ANSWER: True POINTS: 1
REFERENCES: 31

2. The attributes of an entity become the fields or columns in a table.

a. True

b. False

ANSWER: True POINTS: 1
REFERENCES: 31

3. Each column in a table should have a unique name, and entries in each column should all "match" this column name.

a. True

b. False

ANSWER: True POINTS: 1
REFERENCES: 31

4. In a relation, the order of the columns is important.

a. True

- b. False
- ANSWER: False
- POINTS: 1
- REFERENCES: 31
- 5. In a relation, the order of rows is important.
 - a. True
 - b. False
- ANSWER: False
- POINTS: 1
- REFERENCES: 31
- 6. A relational database is a collection of relations.
 - a. True
 - b. False
- ANSWER: True
- POINTS: 1
- REFERENCES: 31
- 7. An unnormalized relation is a table that has more than one row.
 - a. True

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Page

b. False	
ANSWER: False	
POINTS:1	
REFERENCES:	31
8. A column wh	ose value uniquely identifies a given row in the table is the secondary key.
a. True	
b. False	
ANSWER:	False
POINTS:	1
REFERENCES:	32
9. A query is a q	question represented in a way that the DBMS can recognize and process.
b. False	
ANSWER:	True
POINTS:	1
REFERENCES:	32
10. QBE is a vi	isual approach to writing queries.
a. True	
b. False	
ANSWER:	True
POINTS:	1
REFERENCES:	32
	omatically adds double quotation marks around values in the design grid that are formatted ields when you run the query or move the insertion point to another cell in the design grid.
b. False	
ANSWER:	True
POINTS:	1
REFERENCES:	37
12. The compa a. True	rison operators are +, *, %, and /.
b. False	
ANSWER:	False
POINTS:	1
REFERENCES:	37
13. The compari	ison operators are also known as relational operators.
b. False	

True

ANSWER:

POINTS:	1
REFERENCES:	
14. In an AND a. True b. False	criterion, the overall criterion is true if either of the individual criteria is true.
ANSWER:	False
POINTS:	1
REFERENCES:	37
15. The concept a. True	of grouping means that statistics will be calculated for individual records.
b. False	
ANSWER:	False
POINTS:	1
REFERENCES:	44
Multiple Choic	e
16. A relation is a. attribute b. column c. field d. table ANSWER: POINTS: REFERENCES:	d 1 31
	e statement below, which of the following is the primary key? LastName, FirstName, Street, City, State, PostalCode Commission, Rate)
b. LastNam	e
c. FirstNam	e
d. State	
ANSWER:a	
POINTS:1	
REFERENCES:	32
18. When duplic	cate column names exist in a database and you need to indicate the column to which you are referring,
a. do not us	e these two tables together
	e the column names in the same statement
	h the table name and the column name, separated by a period
	table name only
ANSWFR:	C

Chapter 2: The Relational Model 1: Introduction, OBE, and Relational Algebra **POINTS:** 1 REFERENCES: 32 19. Rows are also called . a. fields b. columns c. tuples d. attributes ANSWER: **POINTS:** 1 REFERENCES: 32 20. The _____key of a table is the column or collection of columns that uniquely identifies a given row in that table. a. primary b. secondary c. foreign d. minor ANSWER: **POINTS:** 1 REFERENCES: 32 21. The compound criteria (conditions) are created by using ... a. AND, OR b. AND, NOR c. OR, NOT d. NOT, ONLY ANSWER: **POINTS:** 1 REFERENCES: 37 22. Count, Sum, Avg, Max, and Min are a few of the built-in statistics or _____functions that can be used in a query. a. accumulated b. allowed c. primary d. aggregate ANSWER: **POINTS:** 1 REFERENCES: 42 23. If you are sorting records by more than one field, the more important field is called the_____.

a. primary sort key

b. secondary sort key

c. maximum sort key

d. minor sort key

ANSWER: a

Chapter 2: The Relational Model 1: Introduction, OBE, and Relational Algebra **POINTS:** 1 REFERENCES: 45 24. A query that changes data is a(n) query. a. addition b. update c. update d. select ANSWER: **POINTS:** 1 REFERENCES: 52 25. A query creates a new table using the query results. a. new-table b. make-table c. create-table d. merge-table ANSWER: **POINTS:** 1 REFERENCES: 53 26. The command within relational algebra takes a vertical subset of a table. a. SELECT b. DELETE c. PROGRAM d. PROJECT ANSWER: d POINTS: 1 REFERENCES: 57 27. Based on the *Customer* table below, which command lists all information from the table concerning customer 260? CustomerNum CustomerName Street City State PostalCode Toys Galore 28 Laketon St. **Fulton** 90085 CA**Brookings Direct** 452 Columbus Dr. Grove CA90092 a. SELECT Customer 260 GIVING Answer

CustomerNum CustomerName Street City State PostatCode

126 Toys Galore 28 Laketon St. Fulton CA 90085

260 Brookings Direct 452 Columbus Dr. Grove CA 90092

a. SELECT Customer 260 GIVING Answer

b. SELECT Customer WHERE CustomerNum=260 GIVING Answer c.

SELECT Customer WHERE Customernum='260' GIVING Answer d.

SELECT Customer WHERE CustomerName='260' GIVING Answer

ANSWER: b

POINTS: 1
REFERENCES: 56

28. The _____command within relational algebra includes the word OVER followed by a list of the columns to be included.

a. DELETE

Chapter 2: The Relational Model 1: Introduction, OBE, and Relational Algebra b. PROJECT c. INTERSECT d. UNION ANSWER:b POINTS:1 REFERENCES: 57 29. Which operation will allow you to extract data from more than one table? a. Select b. Merge c. Project d. Join ANSWER: POINTS: 1 REFERENCES: 57 30. You can restrict the output from a join to include only certain columns by using the _____command. a. DELETE b. UNION c. PROJECT d. INTERSECT ANSWER: c **POINTS:** REFERENCES: 58 31. Two tables are considered to be _____compatible if they have the same number of columns and their corresponding columns represent the same type of data. a. union b. intersection c. difference d. product ANSWER: **POINTS:** REFERENCES: 59 32. The operation is performed by the SUBTRACT command in relational algebra. a. union b. difference

c. product

ANSWER: b

d. intersection

POINTS: 1 REFERENCES: 60

33. The operator is used to concatenate every row in the first table with every row in the second table.

r of rows in the product of these
imns.

ANSWER:	unnormalized relation
POINTS:	1
REFERENCES:	31
40. Columns in	a table are often called
ANSWER:	fields
	attributes
POINTS:	1
REFERENCES:	32
41. Conditions the ANSWER: criteri	hat data must satisfy are called
POINTS:1	
REFERENCES:	36
42. A(n)	field is a field that is the result of a calculation using one or more existing fields.
ANSWER	calculated
POINTS:1	
REFERENCES:	41
	cords in a query's results in a particular order, you need tothe records.
ANSWER:sort	
POINTS:1	
REFERENCES:	45
	which records are sorted is called the
ANSWER:	sort key
POINTS:	1
REFERENCES:	45
45	is a theoretical way of manipulating a relational database.
ANSWER: Relati	ional algebra
POINTS:1	
REFERENCES:	56
Essay	
46. Provide a de	finition for the term relation.
ANSWER:	A relation is a two-dimensional table in which:
	1. The entries in the table are single-valued; that is, each location in the table contains a single
	entry.
	2. Each column has a distinct name
	3. All values in a column are values of the same attributes
	4. The order of columns is immaterial
	5. Each row is distinct

6. The order of rows is immaterial

POINTS: 1 REFERENCES: 31

47. What is the difference between an AND criterion and an OR criterion? How is each criterion created in OBE?

ANSWER: In an AND criterion, both criteria must be true for the compound criterion to be true. In an OR criterion, the overall criterion is true if either of the individual criteria is true. In QBE, to create an AND criterion, place the criteria for multiple fields on the same Criteria row in the design grid; to create an OR criterion, place the criteria for multiple fields on different Criteria rows in

the design grid.

POINTS:1

REFERENCES: 37

48. List at least six of the aggregate functions available in Access. Explain how to use any of these functions in a query.

ANSWER: All products that support QBE, including Access, support the following built-in functions (called aggregate functions in Access): Count, Sum, Avg (average), Max (largest value), Min (smallest value), StDev (standard deviation), Var (variance), First, and Last. To use any of these functions in a query, you include them in the Total row for the desired column in the design grid. By default, the Total row does not appear automatically in the design grid. To include it, you must click the Totals button in the Show/Hide group on the Query Tools Design tab.

POINTS:1

REFERENCES: 42

49. Discuss the difference between the major sort key and the minor sort key.

ANSWER: **POINTS:**

To list the records in query results in a particular way, you need to **sort** the records. The field on which r₁ecords are sorted is called the **sort key**; you can sort records using more than one field when necessary. When you are sorting records by more than one field (such as sorting by rep number and then by

REFERENCES: customer name), the first sort field (RepNum) is called the major sort key (also called the primary sort

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key) and the second sort field (CustomerName) is called the minor sort key (also called the secondary sort key).

50. Explain

what relational algebra is and how it is used.

ANSWER:

Relational algebra is a theoretical way of manipulating a relational database. Relational algebra includes operations that act on existing tables to produce new tables, similar to the way the operations of addition and subtraction act on numbers to produce new numbers in the mathematical algebra with which you are familiar. Retrieving data from a relational database through the use of relational algebra involves issuing relational algebra commands to operate on existing tables to form a new table containing the desired information. Sometimes you might need to execute a series of commands to obtain the desired result.

POINTS: 1 REFERENCES: 56