

1. In a relation, \_\_\_ are selected using the tuple relational calculus. \*  
(1 Point)

- ☐ Attributes
- ☐ Tuples
- ☐ Relation
- ☐ Calculus

4. Which key is commonly known as a subset of a super key? \* (1 Point)

- ☐ Candidate key
- ☐ Foreign key
- ☐ Primary key
- ☐ Unique key

5. Which statement helps us to get the definition of a particular table at a time? \* (1 Point)

- ☐ Show table
- ☐ Describe
- ☐ Use table
- ☐ All of the above

6. Renaming the output relation is done via the \_\_\_ operation. \* (1 Point)

☐ Update

☐ Alter

☐ Rename

☐ Reverse

7. which one is a non-procedural query language? \* (1 Point)

☐ Relational Algebra

☐ Relational Calculus

☐ Ambiguous Calculus

☐ None of the above

8. For select operation the \_\_\_\_\_ appear in the subscript and the \_\_\_\_\_ argument appears in the paranthesis after the sigma. \*

(1 Point)

- ☐ Predicates, relation
- ☐ Relation, Predicates
- ☐ Operation, Predicates
- ☐ Relation, Operation

9. In which operation all the tuples are there in the given two tuples? \*

(1 Point)

- ☐ Union
- ☐ Select
- ☐ Rename
- ☐ Set Intersection

10. Which command is used to see all the databases ? \* (1 Point)

- ☐ Show database;
- ☐ Show databases;
- ☐ Show database();
- ☐ Show\_all database;

11. Which of the following is SET Operators \* (1 Point)

- ☐ UNION
- ☐ INTERSECT
- ☐ MINUS
- ☐ UNION ALL
- ☐ All of the above

12. The expression used in relational calculus to specify request of retrieval is classified as \* (1 Point)

- ☐ declarative expression
- ☐ procedural expression
- ☐ structural expression
- ☐ functional expression

13. In which operation we can display a list of the attributes as a result?

\*

(1 Point)

- ☐ Select
- ☐ Project
- ☐ Union
- ☐ Rename

14. What does Set Intersection Operation denote as? \* (1 Point)

☐ U

☐  $\cap$

☐  $\Pi$

☐ I

15. What is the T in Tuple Relational Calculus's Notation? \* (1 Point)

☐ Input Tuples

☐ Resulting Tuples

☐ Both A and B

☐ None of the above

16. Which syntax you will follow to drop a column using alter statement ?

\* (1 Point)

☐ ALTER table\_name TABLE DROP COLUMN column\_name;

☐ ALTER TABLE table\_name DROP COLUMN column\_name;

☐ ALTER table\_name TABLE DROP COLUMN row\_name

☐ None

17. Which of the following is NOT a type of relational operation? \*

(1 Point)

- ☐ Select Operation
- ☐ Set Difference
- ☐ Set Update
- ☐ Cartesian Product

18. a1, a2, ... an notation in DRC are defined as \* (1 Point)

- ☐ Tuples
- ☐ Attributes
- ☐ Both A and B
- ☐ None of the above

19. In the statement(use students ;), what do you mean by the 'student'? \* (1 Point)

- ☐ Database name
- ☐ Row name
- ☐ Column name
- ☐ Table name

20. In which symbol Project Operation is denoted \* (1 Point)

- ☐ P
- ☐ R
- ☐ O

Π

21. The number of attributes in relation is called as its \* (1 Point)

- ☐ Cardinality
- ☐ Degree
- ☐ Tuples
- ☐ Entity

22. Which type of join combines the result from both the tables and returns us the Cartesian product of the values? \* (1 Point)

- ☐ Right join
- ☐ Left join
- ☐ Inner join
- ☐ Cross join

23. What does Set Difference Operation denote as? \* (1 Point)

☐



☐ +

☐ -

☐ U

☐ n

24. Which of the following is the correct syntax to add a field using alter command? \* (1 Point)

☐ ALTER TABLE table\_name ADD field\_name data type;

☐ ALTER TABLE table\_name, field\_name data type;

☐ ALTER TABLE field\_name data type;

☐ All of the above

25. In Relational Algebra, queries are performed using \_\_\_. \* (1 Point)

☐ Entities

☐ Relationships

☐ Operators

☐ Objects

☐

26. Which command you will use to add a row in a table ? \* (1 Point)

☐ INSERT INTO

☐ ADD

☐ ALTER

☐ CREATE

☐

27. DRC uses logical connectives \* (1 Point)

- ☐  $\wedge$  (and)
- ☐  $\vee$  (or)
- ☐  $\neg$  (not)
- ☐ All of the above

28. Find the ID, name, dept name, salary for instructors whose salary is greater than \$50,000 . \* (1 Point)

- ☐  $\{t \mid t \in \text{instructor} \wedge t[\text{salary}] > 50000\}$
- ☐  $\exists t \in r(Q(t))$
- ☐  $\{t \mid \exists s \in \text{instructor} (t[\text{ID}] = s[\text{ID}] \wedge s[\text{salary}] > 50000)\}$
- ☐ None of the mentioned

29. What is the difference between UNION & UNION ALL operators? \* (1 Point)

- ☐ Combining the results of two select statements will be done using UNION whereas combined records from both queries are returned by UNION ALL operator.
- ☐ Combining the results of two select statements will be done using UNION ALL whereas combined records from both queries are returned by UNION operator.

- ☐ After performing the UNION operation, duplicate rows will not be removed whereas after performing the UNION ALL operation, duplicate rows will be removed.
- ☐ All of the above

30. Which statement you will use to delete the entire data of a table without disturbing the table definition? \* (1 Point)

- ☐ DELETE
- ☐ TRUNCATE
- ☐ DROP
- ☐ CLEAR

31. Binding the variable is done by \* (1 Point)

- ☐ Existential Functions ( $\exists$ )
- ☐ Universal Quantifier Functions ( $\forall$ )
- ☐ Both A and B
- ☐ None of the above

32. ALTER command is a type of which SQL command? \* (1 Point)

☐

- ☐ DML
- ☐ DDL
- ☐ DCL
- ☐ DQL

33. How many types of relational calculus are there? \* (1 Point)

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

34. If we want to retain all duplicates, we must write \_\_\_\_\_ in place of union. \* (1 Point)

- ☐ Union all
- ☐ Union some
- ☐ Intersect all
- ☐ Intersect some

35. Which of the following is a type of relational operation? \* (1 Point)

☐ Project Operation

☐ Union Operation

☐ Set Difference

All of the above

36. The types of quantifiers are\_\_ \* (1 Point)

☐ universal quantifier

☐ existential quantifier

☐ local quantifier

☐ both a and b

37. SELECT is a type of which SQL command? \* (1 Point)

☐ DML

☐ DDL

☐ DCL

☐ DQL

☐ 38. TRC can be \_\_\_\_\_. \* (1 Point)

- ☐ Quantified
- ☐ Qualified
- ☐ Destroyed
- ☐ Created

39. Choose the correct syntax of DRC's notation \* (1 Point)

- ☐  $\{a_1, a_2, a_3, \dots, a_n \mid P(a_1, a_2, a_3, \dots, a_n)\}$
- ☐  $\{P(a_1, a_2, a_3, \dots, a_n) \mid a_1, a_2, a_3, \dots, a_n\}$
- ☐  $\{P(a_1, a_2, a_3, \dots, a_n)\}$
- ☐  $\{a_1, a_2, a_3, \dots, a_n\}$

40. The domain of \_\_\_ is used when filtering variables using domain relational calculus. \* (1 Point)

- ☐ Attributes
- ☐ Tuples
- ☐ Both a and b
- ☐ None of the above

41. Select operation is denoted by \* (1 Point)

☐  $\sigma$

☐ R

☐ P

S

42. Which of the following command is used to delete a database? \*  
(1 Point)

☐ DELETE DATABASE\_NAME;

☐ DROP DATABASE\_NAME;

☐ DROP DATABASE DATABASE\_NAME;

☐ DELETE DATABASE DATABASE\_NAME;

43. Find the Correct Expressions for "Find all students who have taken all courses offered in the Biology department." \* (1 Point)

☐  $\exists t \in r(Q(t))$

☐  $\forall t \in r(Q(t))$

☐  $\neg t \in r(Q(t))$

☐  $\sim t \in r(Q(t))$

☐

44. Union operation eliminates the \_\_\_ tuples. \* (1 Point)



- ☐ Simple
- ☐ Single
- ☐ Duplicate
- ☐ NULL

45. P(T) represents the condition that is used to \_\_ T. \* (1 Point)

- ☐ Get
- ☐ Fetch
- ☐ Both A and B
- ☐ None of the above

46. Propositional logic is conducted using p as a formula, using connectors like - \* (1 Point)

- ☐ AND
- ☐ OR
- ☐ NOT
- ☐ All of the above

47. What is the full form of DRC? \* (1 Point)

- ☐ Domain Rational Calculus
- ☐ Domain Relational Calculus
- ☐ Distributed Rational Calculus
- ☐ Distributed Relational Calculus

48. Which of the following is not a type of relational calculus? \* (1 Point)

- ☐ Tuple Relational Calculus
- ☐ Domain Relational Calculus
- ☐ Both A and B
- ☐ None of the above

49. Which is a join condition contains an equality operator: \* (1 Point)

- ☐ Equijoins
- ☐ Cartesian
- ☐ Natural
- ☐ Left

☐ 50. Union operation is denoted by - \* (1 Point)

☐ U

☐ ^

☐ \*

☐ !

51. Using the select operation, you can select the \* (1 Point)

- ☐ Tuples
- ☐ Attributes
- ☐ Operators
- ☐ None

52. What is the notation to denote Tuple Relational Calculus? \* (1 Point)

- ☐  $\{T \mid P(T)\}$
- ☐  $\{P(T) \mid T\}$
- ☐  $\{P(T)\}$
- ☐  $\{T\}$

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