DBMS MCQ Question and Answer

1. The result which operation contains all pairs of tuples from the two relations, regardless of			
whether their attribute values match.			
a) Join			
b) Cartesian product			
c) Intersection			
d) Set difference			
Answer: Cartesian product			
2. The operation performs a set union of two "similarly structured" tables			
a) Union			
b) Join			
c) Product			
d) Intersect			
Answer: Union			
3. The most commonly used operation in relational algebra for projecting a set of tuple from			
a relation is			
a) Join			
b) Projection			
c) Select			
d) Union			
Answer: Select			
Allswei. Select			
4. The operator takes the results of two queries and returns only rows that appear in			
both result sets.			
a) Union			
b) Intersect			
c) Difference			
d) Projection			
Answer: Intersect			
This work intersect			
5. A is a pictorial depiction of the schema of a database that shows the relations in			
the database, their attributes, and primary keys and foreign keys.			
a) Schema diagram			
b) Relational algebra			
c) Database diagram			
d) Schema flow			
Answer: Schema diagram			
Answer. Schema diagram			
6. The provides a set of operations that take one or more relations as input and			
return a relation as an output.			
a) Schematic representation			
b) Relational algebra			
c) Scheme diagram			
d) Relation flow			
Answer: Relational algebra			

7. A relational database consists of a collection of
a) Tables
b) Fields
c) Records
d) Keys
Answer: Tables
Allswei. Tables
8. A in a table represents a relationship among a set of values.
a) Column
b) Key
c) Row
d) Entry
Answer: Row
9. The term is used to refer to a row.
a) Attribute
b) Tuple
c) Field
d) Instance
Answer: Tuple
10. The term attribute refers to a of a table.
a) Record
b) Column
c) Tuple
d) Key
Answer: Column
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11. For each attribute of a relation, there is a set of permitted values, called the of
that attribute.
a) Domain
b) Relation
c) Set
d) Schema
Answer: Domain
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12. Database which is the logical design of the database, and the database
which is a snapshot of the data in the database at a given instant in time.
a) Instance, Schema
b) Relation, Schema
c) Relation, Domain
d) Schema, Instance
Answer: Schema, Instance
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13. An attribute in a relation is a foreign key if the key from one relation is used as
an attribute in that relation.
a) Candidate
b) Primary
c) Super

d) Sub Answer: Primary
14. The relation with the attribute which is the primary key is referenced in another relation. The relation which has the attribute as a primary key is called
15. The is the one in which the primary key of one relation is used as a normal attribute in another relation. a) Referential relation b) Referencing relation c) Referenced relation d) Referred relation Answer: Referenced relation
16. Course (course_id,sec_id,semester) Here the course_id,sec_id and semester are and course is a a) Relations, Attribute b) Attributes, Relation c) Tuple, Relation d) Tuple, Attributes Answer: Attributes, Relation
17. Department (dept name, building, budget) and Employee (employee_id, name, dept name, salary) Here the dept_name attribute appears in both the relations. Here using common attributes in relation schema is one way of relating relations. a) Attributes of common b) Tuple of common c) Tuple of distinct d) Attributes of distinct Answer: Tuple of distinct
18. A domain is atomic if elements of the domain are considered to be units. a) Different b) Indivisbile c) Constant d) Divisible Answer: Indivisbile
19. The tuples of the relations can be of order. a) Any b) Same c) Sorted d) Constant Answer: Any

20. Which one of the following is a set of one or more attributes taken collectively to uniquely identify a record? a) Candidate key b) Sub key c) Super key d) Foreign key Answer: Super key
21. Consider attributes ID, CITY and NAME. Which one of this can be considered as a super
key?
a) NAME
b) ID
c) CITY
d) CITY, ID
Answer: ID
22. The subset of a suman key is a condidate key under what condition?
22. The subset of a super key is a candidate key under what condition? a) No proper subset is a super key
b) All subsets are super keys
c) Subset is a super key
d) Each subset is a super key
Answer: No proper subset is a super key
23. A is a property of the entire relation, rather than of the individual tuples in which each tuple is unique. a) Rows b) Key c) Attribute d) Fields Answer: Key 24. A integrity constraint requires that the values appearing in specified attributes of any tuple in the referencing relation also appear in specified attributes of at least one tuple in the referenced relation. a) Referential b) Referencing c) Specific
d) Primary
Answer: Referential
25. Using which language can a user request information from a database? a) Query b) Relational c) Structural d) Compiler Answer: Query
26. Student(ID, name, dept name, tot_cred)

In this query which attributes form the primary key? a) Name
b) Dept c) Tot_cred
d) ID
Answer: ID
27. Which one of the following is a procedural language?
a) Domain relational calculus
b) Tuple relational calculus
c) Relational algebra d) Query language
Answer: Relational algebra
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28. The operation allows the combining of two relations by merging pairs of tuples,
one from each relation, into a single tuple.
a) Select
b) Join
c) Union
d) Intersection
Answer: Join
29. Which one of the following attribute can be taken as a primary key?
a) Name
b) Street
c) Id
d) Department
Answer: Id
30. Which one of the following cannot be taken as a primary key?
a) Id b) Register number
c) Dept_id
d) Street
Answer: Street
31. Relational Algebra is a query language that takes two relations as input and
produces another relation as an output of the query.
a) Relational
b) Structural c) Procedural
d) Fundamental
Answer: Procedural
32. Which of the following is a fundamental operation in relational algebra?
a) Set intersection
b) Natural join
c) Assignment
d) None of the mentioned
Answer: None of the mentioned

33. Which of the following is used to denote the selection operation in relational algebra?
a) Pi (Greek)
b) Sigma (Greek)
c) Lambda (Greek)
d) Omega (Greek)
Answer: Sigma (Greek)
34. For select operation the appear in the subscript and the argument
appears in the paranthesis after the sigma.
a) Predicates, relation
b) Relation, Predicates
c) Operation, Predicates
d) Relation, Operation
Answer: Predicates, relation
35. The operation, denoted by –, allows us to find tuples that are in one relation
but are not in another.
a) Union
b) Set-difference
c) Difference
d) Intersection
Answer: Set-difference
36. An is a set of entities of the same type that share the same properties, or
attributes.
a) Entity set
b) Attribute set
c) Relation set
d) Entity model
Answer: Entity set
37. Entity is a
a) Object of relation
b) Present working model
c) Thing in real world
d) Model of relation
Answer: Thing in real world
38. The descriptive property possessed by each entity set is
a) Entity
b) Attribute
c) Relation
d) Model
Answer: Attribute
39. The function that an entity plays in a relationship is called that entity's
a) Participation
b) Position
c) Role

d) I	Instan	ce
An	swer:	Role

- 40. The attribute name could be structured as an attribute consisting of first name, middle initial, and last name. This type of attribute is called
- a) Simple attribute
- b) Composite attribute
- c) Multivalued attribute
- d) Derived attribute

Answer: Composite attribute

- 41. The attribute AGE is calculated from DATE_OF_BIRTH. The attribute AGE is
- a) Single valued
- b) Multi valued
- c) Composite
- d) Derived

Answer: Derived

- 42. Not applicable condition can be represented in relation entry as
- a) NA
- b) 0
- c) NULL
- d) Blank Space

Answer: NULL

- 43. Which of the following can be a multivalued attribute?
- a) Phone_number
- b) Name
- c) Date_of_birth
- d) All of the mentioned

Answer: Phone number

- 44. Which of the following is a single valued attribute
- a) Register_number
- b) Address
- c) SUBJECT_TAKEN
- d) Reference

Answer: Register_number

- 45. In a relation between the entities the type and condition of the relation should be specified. That is called as attribute.
- a) Desciptive
- b) Derived
- c) Recursive
- d) Relative

Answer: Desciptive

- 46. Which is a unary operation:
- a) Selection operation
- b) Primitive operation

- c) Projection operation
- d) Generalized selection

Answer: Generalized selection

- 47. Which is a join condition contains an equality operator:
- a) Equijoins
- b) Cartesian
- c) Natural
- d) Left

Answer: Equijoins

- 48. In precedence of set operators, the expression is evaluated from
- a) Left to left
- b) Left to right
- c) Right to left
- d) From user specification

Answer: Left to right

- 49. Which of the following is not outer join?
- a) Left outer join
- b) Right outer join
- c) Full outer join
- d) All of the mentioned

Answer: All of the mentioned

- 50. The assignment operator is denoted by
- a) ->
- b) <-
- c) =
- d) ==

Answer: <-