DBMS MCQs UNIT-1

1.	Entity is a
	a) Relation
	b) Present working model
	c) Real world object or concept
	d) Model of relation
	Ans-c
2.	The relationship set in E-R diagram is represented as
_,	a) Double diamonds
	b) Undivided rectangles
	c) Dashed lines
	d) Diamond
2	Ans-d
3.	Property possessed by each entity set is
	a) Entity
	b) Attribute
	c) Relation
	d) Model
	Ans-b
4.	The attribute AGE is calculated from DATE_OF_BIRTH. The attribute AGE is
	a) Single valued
	b) Multi valued
	c) Composite
	d) Derived
	Ans-d
5.	Which of the following can be a multivalued attribute?
	a) Phone_number
	b) Name
	c) Date_of_birth
	d) All of the mentioned
	Ans-a
6.	Which of the following is a single valued attribute
	a) Registeration_number
	b) Address
	c) SUBJECT_TAKEN
	d) All of the above
	Ans-a
7.	
7.	All entity set that does not have sufficient attributes to form a primary key is termed a
	a) Strong entity set
	b) Variant set
	,
	c) Weak entity set
	d) Variable set
0	Ans-c
8.	Weak entity set is represented as
	a) Underline
	b) Double line
	c) Double diamond
	d) Double rectangle

Ans-d

9.	An entity in A is associated with at most one entity in B, and an entity in B is associated with at most one entity in A. This is called as
	a) One-to-many
	b) One-to-one
	c) Many-to-many
	d) Many-to-one
	Ans-b
10.	An entity in A is associated with at most one entity in B. An entity in B, however, can be associated with any number (zero or more) of entities in A.
	a) One-to-many
	b) One-to-one
	c) Many-to-many
	d) Many-to-one
	Ans-d
11.	defines the structure of a relation.
	A) Instance
	B) Schema
	C) Program
	D) Super Key
	Ans-b
12.	The collection of information stored in a database at a particular moment is called as
	A. schema
	B. instance of the database
	C. data domain
	D. independence
	Ans-b
13.	Grant and revoke are statements.
	A. DDL
	B. TCL
	C. DCL
	D. DML
	Ans-C
14.	command can be used to modify a column in a table
	A. alter
	B. update
	C. set
	D. create
	Ans-A
15.	DCL stands for
	A) Data Control Language
	B) Data Console Language
	C) Data Console Level
	D) Data Control Level
	Ans-A
16.	The database schema is written in
	A. HLL
	B. DML
	C. DDL
	D. DCL
	Ans-C

17.	Which of the following are the properties of entities? A. Groups B. Table
	C. Attributes
	D. Switchboards
	Ans-C
18.	Which database level is closest to the users?
	A. External
	B. Internal
	C. Physical
	D. Conceptual
	Ans-A
19.	Which of the following is/are the DDL statements?
	A) Create
	B) Drop
	C) Alter
	D) All of the above
	Ans-D
20.	Data Manipulation Language enables users to
	a) Retrieval of information stored in database
	b) Insertion of new information into the database
	c) Deletion of information from the database
	d) All of the above
	Ans-d
21.	What do you mean by one-to-many relationship between Teacher and Class table?
	A. One class may have many teachers
	B. One teacher can have many classes
	C. Many classes may have many teachers
	D. Many teachers may have many classes Ans-b
22	Architecture of the database can be viewed as
22.	a) Two Level
	b) Three Level
	c) Four Level
	d) One Level
	Ans-b
23.	An advantage of the database management approach is
	A. Data is dependent on programs
	B. Data redundancy increases.
	C. Data is integrated and can be accessed by multiple programs.
	D. None of the above
	Ans-c
24.	DBMS helps achieve
	A. Data independence
	B. Centralized control of data
	C. Control redundancy
	D. All of above
	Ans-d
25.	Which command is used to create a new relation in SQL:
	a) create table(,) b) create relation(,)
	c) new table(,) d) new relation(,)
	Ans-a

Unit-2 26. Which is the preferred method for enforcing data integrity A) Constraints B) Stored Procedure C) Triggers D) Cursors Ans-A 27. The number of tuples in a relation is called its A) Degree, B) Cardinality C) Rows D) Columns Ans-B 28. The number of attributes in a relation is called it's A) Cardinality B) Degree C) Columns D) Rows Ans-B 29. Which refers to the accuracy and completeness of the data in a database? a. Data security b. Data integrity c. Data constraint d. Data independence 30. Which of the following is not an integrity constraint? a) Not null b) Positive c) Unique d) Default Ans-b 31. Foreign key is the one in which the _____ of one relation is referenced in another relation. a) Foreign key b) Primary key c) References

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d) Check constraint

Ans-b

32.

Roll_no	Name	Address
153	Ramesh	Moradabad
154	Seeta	Hapur
155	Suresh	Amroha
156	Mohan	Rampur

Name
Ramesh
Seeta
Suresh
Mohan

Student Table

Which query will display the second table given above?

- a) Select student from name
- b) Select name
- c) Select name from student
- d) Select student

Ans-c

33.	SELECT * FROM employee WHERE salary>10000 AND dept_id=101;
	Which of the following fields are displayed as output?
	a) Salary, dept_id
	b) Employee
	c) Salary
	d) All the field of employee relation
	Ans-d
34.	Which of the following statements contains an error?
	a) Select * from emp where empid = 10003;
	b) Select empid from emp where empid = 10006;
	c) Select empid from emp;
	d) Select empid where empid = 1009 and sallary = 50000;
	Ans-d
35.	In the given query which of the keyword has to be inserted?
	INSERT INTO employee (1002, Ram, 2000);
	a) Table
	b) Values
	c) Relation
	d) Field
	Ans-b
36.	Aggregate functions are functions that take a as input and return a single value.
	a) Collection of values
	b) Single value
	c) Aggregate value
	d) None of the above
	Ans-a
37.	Which of the following creates a virtual relation for storing the query?
	a) Function
	b) View
	c) Procedure
	d) None of the mentioned
	Ans-b
38.	Which of the following should be used to find the mean of the salary?
	a) Mean(salary)
	b) Avg(salary)
	c) Sum(salary)
	d) Count(salary)
	Ans-b
39.	Which is the reference to the tuples in a relation.
	a) Index
	b) Reference
	c) Assertion
	d) Timestamp
	Ans-a
40.	Which is a special type of integrity constraint that relates two relations & maintains
	consistency across the relations?
	a) Entity Integrity Constraints
	b) Referential Integrity Constraints
	c) Domain Integrity Constraints
	d) Domain Constraints

Ans-b

41. Which one of the following uniquely identifies the elements in the relation?
a) Secondary Key
b) Primary key
c) Foreign key
d) Composite key
Ans-b
42. Which of the following database object does not physically exist?
A. Base table
B. Index
C. View
D. None of the above
Ans-c
43. Key to represent relationship between tables is called
A. Primary key
B. Secondary Key
C. Foreign Key
D. None of these
Ans-C
44. A RDBMS consists a collection of ?
A. Tables
B. Fields
C. Records
D. Keys
Ans-A
45. The term attribute refers to a of a table.
A. Record
B. Tuple
C. Column
D. Key Ans-C
46. In relational model, the row of table is known as?
A. Relation
B. Entity field
C. Tuple
D. Attribute
Ans-C
47. Address field of a person should not be part of primary key, since it is likely to?
A. Dependent
B. Too long
C. Changed
D. Not changed
Ans-C
48. What is the full form of RDBMS?
A. Right Database Management System
B. Relational Database Management system
C. Rapid Database Management System
D. Route Database Management System
Ans-B

49.	Using which language can a user request information from a database?
	A. Query
	B. Relational
	C. Structural
	D. Compiler
	Ans-A
50.	Primary key must be
	A. Unique
	B. Not Null
	C. Both A and B
	D. None of these
	Ans-C
51.	Which of the following is not an aggregate function:
	a) Avg
	b) Sum
	c) With
	d) Min
	Ans-C
52.	Which of the following is a valid SQL data type:
	a) INT
	b) FLOAT
	c) VARCHAR
	d) All of the above
	Ans-d
53.	SQL stand for
	A. Structured Query Language
	B. Structured Query List
	C. Simple Query Language
	D. None of these
	Ans-A
54.	Which SQL function is used to count the all number of rows in a SQL query?
	a) COUNT()
	b) NUMBER()
	c) SUM()
	d) COUNT(*)
	Ans-d
55.	Which SQL keyword is used to retrieve a maximum value?
	a) MOST
	b) TOP
	c) MAX
	d) UPPER
	Ans-c
56.	Which command is used to delete all rows from a table.
	a) DELETE
	b) REMOVE
	c) DROP
	d) TRUNCATE
	Ans-d

- 57. Which of the following statement is true?
 - a) DELETE does not free the space containing the table and TRUNCATE free the space containing the table
 - b) Both DELETE and TRUNCATE free the space containing the table
 - c) Both DELETE and TRUNCATE does not free the space containing the table
 - d) DELETE free the space containing the table and TRUNCATE does not free the space containing the table

Ans-a

- 58. Which of the following is not a DDL command?
 - a) UPDATE
 - b) TRUNCATE
 - c) ALTER
 - d) None of the Mentioned

Ans-a

- 59. If you want to allow age of a person > 18 in the column Age of table Person, then which constraint will be applied to AGE column.
 - a) Default
 - b) Check
 - c) NOT NULL
 - d) None

Ans-b

- 60. Logical operators used in SQL are
 - a) AND, OR, NOT
 - b) &&, ||, !
 - c) \$,|,!
 - d) None of the above

Ans-a

61.	A table is in BCNF if it is in 3NF and if every determinant is a key. a) Dependent
	b) Normal
	c) Super
	d) Both Normal and Candidate
	Ans-c
62.	A table is in 3NF if it is in 2NF and if it has no
	a) Functional Dependencies
	b) Transitive Dependencies
	c) Trivial Functional Dependency
	d) Multivalued Dependencies
62	Ans-b Which is an indirect functional dependency, one in which Y > 7 only by virtue of Y > Y and Y
03.	Which is an indirect functional dependency, one in which X->Z only by virtue of X->Y and Y->Z.
	a) Multivalued Dependencies
	b) Join Dependency
	c) Trivial Functional Dependency
	d) Transitive Dependencies
	Ans-d
64.	Splitting the relation into multiple relations, is known as
	a) Accupressure
	b) Decomposition
	c) Precomposition
	d) Both Decomposition and Precomposition
	Ans-b
65.	A functional dependency is a relationship between or among
	A. Entities
	B. Rows
	C. Attributes
	D. Tables
	Ans-c
66.	The database design prevents some data from being stored due to
	A. Deletion anomalies
	B. Insertion anomalies
	C. Update anomalies D. Selection anomalies
	Ans-B
67	If one attribute is determinant of second, which in turn is determinant of third, then the relation
07.	cannot be:
	A. Well-structured
	B. 1NF
	C. 2NF
	D. 3NF
	Ans-D
68.	In which form of function there is no partial functional dependencies.
	A. BCNF
	B. 2NF
	C. 3NF
	D. 4NF
	Ans-B

69.	In which normal foam value in each coloum is atomic . A. 1NF
	B. 2NF
	C. 3NF
	D. 4NF
70	Ans-A
70.	Normalization is the process of: A. Organizing the data in the database
	B. Eliminating data redundancy
	C. Eliminating anomalies
	D. All of the above
	Ans-D
71.	Collections of operations that form a single logical unit of work are called
	a) Views
	b) Networks
	c) Units
	d) Transactions Ans-d
72	The "all-or-none" property is commonly referred to as
12.	a) Isolation
	b) Durability
	c) Atomicity
	d) None of the mentioned
	Ans-c
73.	Which of the following is a property of transactions?
	a) Atomicity
	b) Durability c) Isolation
	d) All of the mentioned
	Ans-d
74.	Which of the following is not a property of a transaction?
	a) Atomicity
	b) Simplicity
	c) Isolation
	d) Durability
7.5	Ans-b
75.	Which of the following systems is responsible for ensuring isolation? a) Recovery system
	b) Atomic system
	c) Concurrency control system
	d) Compiler system
	Ans-b
76.	A transaction that has not been completed successfully is called as
	a) Compensating transaction
	b) Aborted transaction
	c) Active transaction
	d) Partially committed transaction Ans-b
	THIS C

77.	Which of the following is not a transaction state?
	a) Active
	b) Partially committed
	c) Failed
	d) Compensated
	Ans-d
78.	What are the ACID Properties of transaction?
	(A) Atomicity, Consistency, Inconsistent, Durability
	(B) Atomicity, Consistency, Isolation, Durability
	(C) Atomicity, Consistency, Inconsistent, Database
	(D) Automatically, Consistency, Inconsistent, Durability
	Ans-B
79.	When more than one user is accessing same data at the same time then it is known
	(A) Controlled Access
	(B) Currently Access
	(C) Concurrent Access
	(D) Uncontrolled Access Ans-C
<u>۹</u> ۸	Which of the following is not any type of schedule
80.	(A) Serial Schedule
	(B) Non- Serial Schedule
	(C) Concurrent Schedule
	(D) None of the above
	Ans-C
81.	Transactions are executed one by one without any interleaved operations from other
	transactions is known as
	(A) Serial Schedule
	(B) Complete Schedule
	(C) Concurrent Schedule
	(D) Non-Complete Schedule
	Ans-A
82.	The size of data item to be lock is known as its
	(A) Implicit Lock
	(B) Explicit Lock
	(C) Granularity
	(D) None of above
02	Ans-C If a transaction has abtained a lock, it can read but connect write on the item
03.	If a transaction has obtained a lock, it can read but cannot write on the item. (A) Shared
	(B) Exclusive
	(C) Implicit
	(D) Explicit
	Ans-A
84.	The protocol that indicates when a transaction acquire lock and unlock on data items is known
· · ·	as
	(A) Unlocking Protocol
	(B) Concurrency Control Protocol
	(C) Locking Protocol
	(D) None of above
	Ans-C

- 85. Which of the following phases consist Two Phase Locking protocol (A) Growing Phase (B) Shrinking Phase (C) Both A & B (D) None of above Ans-C
- 86. In 2PL If a transaction may obtain locks but may not release any locks then Transaction is in
 - (A) Initial Phase
 - (B) Growing Phase
 - (C) Shrinking Phase
 - (D) Deadlock phase

Ans-B

- 87. In 2PL If a transaction may release locks but may not obtain any locks then transaction is in
 - (A) Initial Phase
 - (B) Growing Phase
 - (C) Shrinking Phase
 - (D) Deadlock phase

Ans-C

- 88. Which of the following is used to implement a timestamp
 - (A) System Clock
 - (B) Logical Counter
 - (C) Both A & B
 - (D) None of above

Ans-C

- 89. In a granularity hierarchy the highest level represents the
 - a) Entire database
 - b) Area
 - c) File
 - d) Record

Ans-A

- 90. Which denotes the largest timestamp of any transaction that executed write(Q) successfully.
 - a) W-timestamp(Q)
 - b) R-timestamp(Q)
 - c) RW-timestamp(Q)
 - d) WR-timestamp(Q)

Ans-A

- 91. Which of the following are introduced to reduce the overheads caused by the log-based recovery?
 - a) Checkpoints
 - b) Indices
 - c) Deadlocks
 - d) Locks

Ans-A

- 92. In which method, some of the columns of a relation are stored at different sites
 - A. Data Replication
 - B. Horizontal Partitioning
 - C. Vertical Partitioning
 - D. Horizontal and Vertical Partitioning

Ans-C

93.	Which method stores a separate copy of database at multiple sites:
	A. Data Replication
	B. Horizontal Partitioning
	C. Vertical Partitioning D. Horizontal and Vertical Partitioning
	D. Horizontal and Vertical Partitioning Ans-A
04	In which method, some of the rows of a relation are stored at different sites
74.	A. Data Replication
	B. Horizontal Partitioning
	C. Vertical Partitioning
	D. Horizontal and Vertical Partitioning
	Ans-B
95.	Checkpoints are a part of
	A. Recovery measures
	B. Security measures
	C. Concurrency measures
	D. Authorization measures
	Ans-B
96.	In log based recovery, the log is sequence of
	A. filter
	B. records
	C. blocks
	D. numbers
0.7	Ans-B
97.	Which of the following can cause a transaction failure
	a. Logical error
	b. System error
	c. Hard-Disk Failured. All of the above
	Ans-d
98	If a transaction cannot complete due to some code error or an internal error condition it is called as a
<i>7</i> 0.	if a transaction cannot complete due to some code error of an internal error condition it is cance as a
	a. Logical error
	b. System error
	c. Hard-Disk Failure
	d. None of the mentioned
	Ans-a
99.	Rollback of transactions is normally used to:
	a. recover from transaction failure
	b. update the transaction
	c. retrieve old records
	d. repeat a transaction Ans-a
100	
100	a) Serializability order
	b) Direction graph
	c) Precedence graph
	d) Scheduling scheme
	Ans-c
101	
	schedule
	a) Vertices
	b) Edges
	c) Directions
	d) None of the mentioned
	Ans-a