

National Testing Agency

Question Paper Name: Database Management System 09th November 2019 Shift 1
Subject Name: Database Management System
Creation Date: 2019-11-09 18:35:15
Duration: 180
Total Marks: 100
Display Marks: Yes

Database Management System

Group Number : 1
Group Id : 7077563
Group Maximum Duration : 0
Group Minimum Duration : 120
Revisit allowed for view? : No
Revisit allowed for edit? : No
Break time: 0
Group Marks: 100

Database Management System

Section Id : 7077564
Section Number : 1
Section type : Online
Mandatory or Optional: Mandatory
Number of Questions: 100
Number of Questions to be attempted: 100
Section Marks: 100
Display Number Panel: Yes
Group All Questions: No

Sub-Section Number: 1
Sub-Section Id: 7077564
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 707756231 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What represent a correspondence between the various data elements?

- a) data
- b) constraints
- c) relationships
- d) schema

Question Number : 2 Question Id : 707756232 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Following is the type of metadata

- a) operational
- b) EDW
- c) data mart
- d) all of these

Question Number : 3 Question Id : 707756233 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What schema defines how and where data are organized in physical data storage?

- a) external
- b) internal
- c) conceptual
- d) none of these

Question Number : 4 Question Id : 707756234 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is an object oriented feature

- a) inheritance
- b) abstraction
- c) polymorphism
- d) all of these

Question Number : 5 Question Id : 707756235 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is direct access processing method?

- a) relative addressing
- b) indexing
- c) hashing
- d) all of these

Question Number : 6 Question Id : 707756236 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the degree of table with 5000 rows and 50 columns?

- a) 50
- b) 500
- c) 5000
- d) none of these

Question Number : 7 Question Id : 707756237 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A table can have only one

- a) primary key
- b) alternative key
- c) candidate key
- d) all of these

Question Number : 8 Question Id : 707756238 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is RDBMS for set of legal values that attribute can have

- a) tuple
- b) relation
- c) attribute
- d) domain

Question Number : 9 Question Id : 707756239 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

An association among three entities is called

- a) binary relation
- b) ternary relation
- c) recursive relation
- d) none of these

Question Number : 10 Question Id : 707756240 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A functional dependency is a

- a) many –to-many relation between 2 sets of attributes
- b) one –to-one relation between 2 sets of attributes
- c) many –to-one relation between 2 sets of attributes
- d) none

Question Number : 11 Question Id : 707756241 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The union operation automatically _____ unlike the select clause.

- a) Adds tuples
- b) Eliminates unique tuples
- c) Adds common tuples
- d) Eliminates duplicate

Question Number : 12 Question Id : 707756242 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

_____ joins are SQL server default

- a) Outer
- b) Inner
- c) Equi
- d) None of the mentioned

Question Number : 13 Question Id : 707756243 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Using the _____ clause retains only one copy of such identical tuples.

- a) Null
- b) Unique
- c) Not null
- d) Distinct

Question Number : 14 Question Id : 707756244 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The phrase "greater than at least one" is represented in SQL by _____

- a) < all
- b) < some
- c) > all
- d) > some

Question Number : 15 Question Id : 707756245 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following creates a temporary relation for the query on which it is defined?

- a) With
- b) From
- c) Where
- d) Select

Question Number : 16 Question Id : 707756246 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

How can you find rows that do not match some specified condition?

- a) EXISTS
- b) Double use of NOT EXISTS
- c) NOT EXISTS
- d) None of the mentioned

Question Number : 17 Question Id : 707756247 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What type of join is needed when you wish to include rows that do not have matching values?

- a) Equi-join
- b) Natural join
- c) Outer join
- d) All of the mentioned

Question Number : 18 Question Id : 707756248 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Triggers are supported in

- a) Delete
- b) Update
- c) Views
- d) All of the mentioned

Question Number : 19 Question Id : 707756249 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The variables in the triggers are declared using

- a) –
- b) @
- c) /
- d) /@

Question Number : 20 Question Id : 707756250 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Ranking of queries is done by which of the following?

- a) Group by
- b) Order by
- c) Having
- d) Both Group by and Order by

Question Number : 21 Question Id : 707756251 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

Question Number : 22 Question Id : 707756252 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which is a unary operation:

- a) Selection operation
- b) Primitive operation
- c) Projection operation
- d) Generalized selection

Question Number : 23 Question Id : 707756253 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following symbol is used in the place of except?

- a) ^
- b) V
- c) \neg
- d) ~

Question Number : 24 Question Id : 707756254 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The descriptive property possessed by each entity set is _____

- a) Entity
- b) Attribute
- c) Relation
- d) Model

Question Number : 25 Question Id : 707756255 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following can be a multivalued attribute?

- a) Phone_number
- b) Name
- c) Date_of_birth
- d) All of the mentioned

Question Number : 26 Question Id : 707756256 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

Question Number : 27 Question Id : 707756257 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Data integrity constraints are used to:

- a) Control who is allowed access to the data
- b) Ensure that duplicate records are not entered into the table
- c) Improve the quality of data entered for a specific property
- d) Prevent users from changing the values stored in the table

Question Number : 28 Question Id : 707756258 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Drop Table cannot be used to drop a table referenced by a _____ constraint.

- a) Local Key
- b) Primary Key
- c) Composite Key
- d) Foreign Key

Question Number : 29 Question Id : 707756259 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The Rectangles divided into two parts represents

- a) Entity set
- b) Relationship set
- c) Attributes of a relationship set
- d) Primary key

Question Number : 30 Question Id : 707756260 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

We can use the following three rules to find logically implied functional dependencies.

This collection of rules is called

- a) Axioms
- b) Armstrong's axioms
- c) Armstrong
- d) Closure

Question Number : 31 Question Id : 707756261 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The normal form which satisfies multivalued dependencies and which is in BCNF is

- a) 4 NF
- b) 3 NF
- c) 2 NF
- d) All of the mentioned

Question Number : 32 Question Id : 707756262 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which forms has a relation that possesses data about an individual entity?

- a) 2NF
- b) 3NF
- c) 4NF
- d) 5NF

Question Number : 33 Question Id : 707756263 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If a multivalued dependency holds and is not implied by the corresponding functional dependency, it usually arises from one of the following sources.

- a) A many-to-many relationship set
- b) A multivalued attribute of an entity set
- c) A one-to-many relationship set
- d) Both A many-to-many relationship set and A multivalued attribute of an entity set

Question Number : 34 Question Id : 707756264 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The _____ is the fastest and most costly form of storage, which is relatively small; its use is managed by the computer system hardware.

- a) Cache
- b) Disk
- c) Main memory
- d) Flash memory

Question Number : 35 Question Id : 707756265 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The flash memory storage used are

- a) NOR Flash
- b) OR Flash
- c) AND Flash
- d) All of the mentioned

Question Number : 36 Question Id : 707756266 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Tape storage is referred to as _____ storage.

- a) Direct-access
- b) Random-access
- c) Sequential-access
- d) All of the mentioned

Question Number : 37 Question Id : 707756267 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A _____ is the smallest unit of information that can be read from or written to the disk.

- a) Track
- b) Spindle
- c) Sector
- d) Platter

Question Number : 38 Question Id : 707756268 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Once the head has reached the desired track, the time spent waiting for the sector to be accessed to appear under the head is called the _____

- a) Access time
- b) Average seek time
- c) Seek time
- d) Rotational latency time

Question Number : 39 Question Id : 707756269 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which level of RAID refers to disk mirroring with block striping?

- a) RAID level 1
- b) RAID level 2
- c) RAID level 0
- d) RAID level 3

Question Number : 40 Question Id : 707756270 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The RAID level which mirroring is done along with striping is

- a) RAID 1+0
- b) RAID 0
- c) RAID 2
- d) Both RAID 1+0 and RAID 0

Question Number : 41 Question Id : 707756271 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

_____ is popular for applications such as storage of log files in a database system since it offers the best write performance.

- a) RAID level 1
- b) RAID level 2
- c) RAID level 0
- d) RAID level 3

Question Number : 42 Question Id : 707756272 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following is not a secondary storage?

- a) magnetic disks
- b) magnetic tapes
- c) ram
- d) none of the mentioned

Question Number : 43 Question Id : 707756273 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A unit of storage that can store one or more records in a hash file organization is denoted as

- a) Buckets
- b) Disk pages
- c) Blocks
- d) Nodes

Question Number : 44 Question Id : 707756274 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The highest level in the hierarchy of data organization is called

- a) Data bank
- b) Data base
- c) Data file
- d) Data record

Question Number : 45 Question Id : 707756275 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of these data models is an extension of the relational data model?

- a) Object-oriented data model
- b) Object-relational data model
- c) Semi structured data model
- d) None of the mentioned

Question Number : 46 Question Id : 707756276 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The information about data in a database is called _____

- a) Metadata
- b) Hyper data
- c) Tera data
- d) None of the mentioned

Question Number : 47 Question Id : 707756277 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Relational schemas and other metadata about relations are stored in a structure called the _____

- a) Metadata
- b) Catalog
- c) Log
- d) Data Dictionary

Question Number : 48 Question Id : 707756278 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

_____ is a contiguous group of blocks allocated for use as part of a table, index, and so forth.

- a) Tablespace
- b) Segment
- c) Extent
- d) Block

Question Number : 49 Question Id : 707756279 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A data dictionary is created when a _____ created.

- a) Instance
- b) Segment
- c) Database
- d) Dictionary

Question Number : 50 Question Id : 707756280 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In a _____ clustering index, the index record contains the search-key value and a pointer to the first data record with that search-key value and the rest of the records will be in the sequential pointers.

- a) Dense
- b) Sparse
- c) Straight
- d) Continuous

Question Number : 51 Question Id : 707756281 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In B+ tree the node which points to another node is called

- a) Leaf node
- b) External node
- c) Final node
- d) Internal node

Question Number : 52 Question Id : 707756282 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Insertion of a large number of entries at a time into an index is referred to as _____ of the index.

- a) Loading
- b) Bulk insertion
- c) Bulk loading
- d) Increase insertion

Question Number : 53 Question Id : 707756283 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The goal of hashing is to produce a search that takes

- a) $O(1)$ time
- b) $O(n^2)$ time
- c) $O(\log n)$ time
- d) $O(n \log n)$ time

Question Number : 54 Question Id : 707756284 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Breadth First Search is used in

- a) Binary trees
- b) Stacks
- c) Graphs
- d) All of the mentioned

Question Number : 55 Question Id : 707756285 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The separation of the data definition from the program is known as:

- a) Data dictionary
- b) Data independence
- c) Data integrity
- d) Referential integrity

Question Number : 56 Question Id : 707756286 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The traditional storage of data that is organized by customer, stored in separate folders in filing cabinets is an example of what type of 'database' system?

- a) Hierarchical
- b) Network
- c) Object oriented
- d) Relational

Question Number : 57 Question Id : 707756287 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The purpose of an N-Ary association is:

- a) To capture a parent-child relationship
- b) To deal with one to many relationships
- c) To deal with relationships that involve more than two tables
- d) To represent an inheritance relationship

Question Number : 58 Question Id : 707756288 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A _____ on the attribute A of relation r consists of one bitmap for each value that A can take.

- a) Bitmap index
- b) Bitmap
- c) Index
- d) Array

Question Number : 59 Question Id : 707756289 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In a B+-tree index _____ for each value, we would normally maintain a list of all records with that value for the indexed attribute.

- a) Leaf
- b) Node
- c) Root
- d) Link

Question Number : 60 Question Id : 707756290 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

How many types of indexes are there in sql server?

- a) 1
- b) 2
- c) 3
- d) 4

Question Number : 61 Question Id : 707756291 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What are composite indexes?

- a) Are those which are composed by database for its internal use
- b) A composite index is a combination of index on 2 or more columns
- c) Composite index can never be created
- d) None of the mentioned

Question Number : 62 Question Id : 707756292 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A _____ index is the one which satisfies all the columns requested in the query without performing further lookup into the clustered index.

- a) Clustered
- b) Non Clustered
- c) Covering
- d) B-Tree

Question Number : 63 Question Id : 707756293 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A table can be logically connected to another table by defining a

- a) Super key
- b) Candidate key
- c) Primary key
- d) Unique key

Question Number : 64 Question Id : 707756294 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In query processing, the _____ is the lowest-level operator to access data.

- a) Index Search
- b) Linear search
- c) File scan
- d) Access paths

Question Number : 65 Question Id : 707756295 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Search algorithms that use an index are referred to as

- a) Index Search
- b) Linear search
- c) File scan
- d) Access paths

Question Number : 66 Question Id : 707756296 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

_____ has made PL/SQL code run faster without requiring any additional work on the part of the programmer.

- a) SQL Server
- b) My SQL
- c) Oracle
- d) SQL Lite

Question Number : 67 Question Id : 707756297 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Identify the characteristics of transactions

- a) Atomicity
- b) Durability
- c) Isolation
- d) All of the mentioned

Question Number : 68 Question Id : 707756298 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The property of a transaction that persists all the crashes is

- a) Atomicity
- b) Durability
- c) Isolation
- d) All of the mentioned

Question Number : 69 Question Id : 707756299 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is an atomic sequence of database actions?

- a) Transaction
- b) Concurrency
- c) Relations
- d) All of the mentioned

Question Number : 70 Question Id : 707756300 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

_____ means that data used during the execution of a transaction cannot be used by a second transaction until the first one is completed.

- a) Serializability
- b) Atomicity
- c) Isolation
- d) Time stamping

Question Number : 71 Question Id : 707756301 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a state in transaction?

- a) Active
- b) Terminated
- c) Aborted
- d) Partially committed

Question Number : 72 Question Id : 707756302 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

SQL can be used to:

- a) Create database structures only
- b) Query database data only
- c) Modify database data only
- d) All of the mentioned

Question Number : 73 Question Id : 707756303 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following protocols ensures conflict serializability and safety from deadlocks?

- a) Two-phase locking protocol
- b) Time-stamp ordering protocol
- c) Graph based protocol
- d) None of the mentioned

Question Number : 74 Question Id : 707756304 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The ____ lock allows concurrent transactions to access the same row as long as they require the use of different fields within that row.

- a) Table-level
- b) Page-level
- c) Row-level
- d) Field-level

Question Number : 75 Question Id : 707756305 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If a node is locked in an intention mode, explicit locking is done at a lower level of the tree. This is called

- a) Intention lock modes
- b) Explicit lock
- c) Implicit lock
- d) Exclusive lock

Question Number : 76 Question Id : 707756306 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The _____ ensures that any conflicting read and write operations are executed in timestamp order.

- a) Timestamp-ordering protocol
- b) Timestamp protocol
- c) W-timestamp
- d) R-timestamp

Question Number : 77 Question Id : 707756307 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following is a failure to a system

- a) Boot crash
- b) Read failure
- c) Transaction failure
- d) All of the mentioned

Question Number : 78 Question Id : 707756308 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which kind of failure loses its data in head crash or failure during a transfer operation.

- a) Transaction failure
- b) System crash
- c) Disk failure
- d) All of the mentioned

Question Number : 79 Question Id : 707756309 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In the _____ scheme, a transaction that wants to update the database first creates a complete copy of the database.

- a) Shadow copy
- b) Shadow Paging
- c) Update log records
- d) All of the mentioned

Question Number : 80 Question Id : 707756310 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Before a block of data in main memory can be output to the database, all log records pertaining to data in that block must have been output to stable storage. This is

- a) Read-write logging
- b) Read-ahead logging
- c) Write-ahead logging
- d) None of the mentioned

Question Number : 81 Question Id : 707756311 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The magnetic storage chip used to provide non-volatile direct access storage of data and that have no moving parts are known as

- a) Magnetic core memory
- b) Magnetic tape memory
- c) Magnetic disk memory
- d) Magnetic bubble memory

Question Number : 82 Question Id : 707756312 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is used for undo operations alone?

- a) Logical logging
- b) Physical logging
- c) Physical log records
- d) Physical logging and Physical log records

Question Number : 83 Question Id : 707756313 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Shadow paging has

- a) no redo
- b) no undo
- c) redo but no undo
- d) neither redo nor undo

Question Number : 84 Question Id : 707756314 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which statement is true regarding synonyms?

- a) Synonyms can be created for tables but not views
- b) Synonyms are used to reference only those tables that are owned by another user
- c) A public synonym and a private synonym can exist with the same name for the same table
- d) The DROP SYNONYM statement removes the synonym, and the status of the table on which the synonym has been created becomes invalid

Question Number : 85 Question Id : 707756315 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which is the process of breaking a relation into multiple relations:

- a) Functional dependency
- b) Database modeling
- c) Normalization
- d) Decomposition

Question Number : 86 Question Id : 707756316 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which is a duplicate copy of a file program that is stored on a different storage media than the original location:

- a) Concurrency
- b) Deadlock
- c) Backup
- d) Recovery

Question Number : 87 Question Id : 707756317 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which is the duplication of computer operations and routine backups to combat any unforeseen problems:

- a) Concurrency
- b) Deadlock
- c) Backup
- d) Recovery

Question Number : 88 Question Id : 707756318 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

_____ joins are SQL server default

- a) Outer
- b) Inner
- c) Equi
- d) None of the Mentioned

Question Number : 89 Question Id : 707756319 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

_____ is a special type of stored procedure that is automatically invoked whenever the data in the table is modified.

- a) Procedure
- b) Trigger
- c) Curser
- d) None of the Mentioned

Question Number : 90 Question Id : 707756320 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A transaction can do only read operation and not write operation on a data item when it acquires _____ lock

- a) read mode
- b) exclusive mode
- c) shared mode
- d) write mode

Question Number : 91 Question Id : 707756321 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Isolations of the transactions is ensured by

- a) Transaction management
- b) Application programmer
- c) Concurrency control
- d) Recovery management

Question Number : 92 Question Id : 707756322 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Throughput means

- a) number of transactions that re committed in one hour
- b) number of operations in a transaction
- c) number of transaction that can be aborted in a given amount of time
- d) number of transaction that can be executed in a given amount of time

Question Number : 93 Question Id : 707756323 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Assume transaction A holds a shared lock R. If transaction B also requests for a shared lock on R.

- a) It will result in a deadlock situation
- b) It will immediately be rejected
- c) It will immediately be granted
- d) It will be granted as soon as it is released by A

Question Number : 94 Question Id : 707756324 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A transaction that completes its execution successfully is said to be _____

- a) Committed
- b) Rolled back
- c) Partially committed
- d) Aborted

Question Number : 95 Question Id : 707756325 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

For committing a transaction, the DBMS might discard all the records.

- a) After image
- b) Before image
- c) Log
- d) Redo log

Question Number : 96 Question Id : 707756326 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

_____ servers which is widely used in relational database designs

- a) Data servers
- b) Transaction servers
- c) Query servers
- d) Client servers

Question Number : 97 Question Id : 707756327 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The total ordering of operations across groups ensures _____ of transactions

- a) Serializability
- b) Synchronizability
- c) Atomicity
- d) Durability

Question Number : 98 Question Id : 707756328 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Tree structures are used to store data in

- a) Network model
- b) Relational model
- c) Hierarchical model
- d) File based system

Question Number : 99 Question Id : 707756329 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Relational Calculus is a

- a) Procedural language
- b) Non- procedural language
- c) Data definition language
- d) High level language

Question Number : 100 Question Id : 707756330 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Cartesian product in relational algebra is

- a) Unary operator
- b) Binary operator
- c) Ternary operator
- d) not defined