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FINALTERM EXAMINATION
Fall 2008
CS403- Database Management Systems (Session - 1)
Marks: 75

Question No: 1 (Marks: 1) - Please choose one

Consider the following statements.
A. Conceptual schema which is the result of conceptual design is a logical description of all data elements and their relationships.
B. Internal level of the database architecture consists of the physical view of the database.
C. External level of the database architecture provides the user view of the database.
With respect to the ANSI/SPARC three level database architecture, which of the above is/are correct?

- Only A.
- Only C.
- Only A and B.
- Only B and C.

Question No: 2 (Marks: 1) - Please choose one

Choose the symbol that corresponds to a discriminator attributes.

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Question No: 3 (Marks: 1) - Please choose one

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Which one of the following four E-R diagrams is the typical result you obtain when you initially start with an E-R diagram containing just two entities, A and C, in a Many-to-Many relationship, and then introduce an associative entity (B).

►

►

►

►

Question No: 4 (Marks: 1) - Please choose one

GRANT SELECT, UPDATE(Designation) ON Employee TO Amali,Hiruni WITH GRANT OPTION;
What does this SQL statement do?

► Grant permission to Amali,only to retrieve data from Employee table and grant permission to Hiruni, only to update the designation from Employee table.

► Grant permission to Amali & Hiruni to retrieve data from Employee table.

► Grant permission to Hiruni in order to grant, select and update permission to Amali.

► Grant permission to Amali and Hiruni to update all data except designation in Employee table

Question No: 5 (Marks: 1) - Please choose one

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Identify the command to delete a record in the table.

- ► DELETE
- ► DROP
- ► INSERT
- ► UPDATE

Question No: 6 (Marks: 1) - Please choose one

How many clustered index(es) do each database table have?

- ► 2
- ► 3
- ► 5
- ► 1

Question No: 7 (Marks: 1) - Please choose one

Which of the following is true about TRUNCATE?

- ► Can be Rolled back.
- ► Activates Triggers.
- ► is DML Command.
- ► Resets identity of the table.

Question No: 8 (Marks: 1) - Please choose one

Which of the following constraints prevents any actions that would destroy links between tables with the corresponding data values?

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► NOT NULL

► CHECK

► PRIMARY KEY

► FOREIGN KEY

Question No: 9 (Marks: 1) - Please choose one

How many records do a DB view can display?

► four or more

► three or more

► one or more

► two or more

Question No: 10 (Marks: 1) - Please choose one

Which of the following is true about application programs?

► develop before the database design

► Tools selection is made after the development database

► meant to perform different operations by the user

► must to design before the designing and developing database

Question No: 11 (Marks: 1) - Please choose one

Which of the following is used to add or drop columns in an existing table?

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► ALTER

► HAVING

► SELECT

► THEN

Question No: 12 (Marks: 1) - Please choose one

Which of the following is a correct way of selecting all the columns from a table called PERSONS?

► `SELECT FROM * Persons`

► `SELECT * FROM Persons`

► `SELECT * WHERE Persons`

► `SELECT WHERE * Persons`

Question No: 13 (Marks: 1) - Please choose one

Which of the following is incorrect with respect to indexed sequential files?

► New records are added to an overflow file

► Record in main file that precedes it is updated to contain a pointer to the new record

► The overflow is merged with the main file during a batch update

► Multiple indexes for the same key field cannot be setup

Question No: 14 (Marks: 1) - Please choose one

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What is the maximum limit of keys in context with Indexed sequential files?

► 7

► 255

► 1

► 235

Question No: 15 (Marks: 1) - Please choose one

Which of the following is NOT a component of a DFD?

► Dataflow

► Datastore

► External entities

► Relationship between external entities

Question No: 16 (Marks: 1) - Please choose one

Consider the following diagram depicting a kind of a relationship type where X and Z are entities and Y is a relationship type:

Select the correct statement among the following on the above diagram.

- ► The relationship type Y is of cardinality ratio 1 : N.
- ► The diagram depicts existence dependencies.
- ► The participation of X in the Y relationship type is total.
- ► The participation of Z in the Y relationship type is partial.

Question No: 17 (Marks: 1) - Please choose one

If W, X, Y and Z are attributes of a relation, which of the following inference rules for functional dependencies is correct?

- ► If X $\supseteq$ Y then Y -> X.
- ► If X -> Y then (X, Z) -> (Y,W).
- ► If X -> (Y,Z) then X -> Y.
- ► If (X, Z) -> Y then X -> Y and Z -> Y.

Question No: 18 (Marks: 1) - Please choose one

The information regarding ‘views’ and ‘Integrity constraints’ are found in

- ► System Catalog
- ► Data Dictionary
- ► Indexes
- ► Both Data Dictionary and System Catalog

Question No: 19 (Marks: 1) - Please choose one

Which of the given techniques is/are used to improve query performance in database?

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► Good File organization

► Indexing

► Both Indexing and Good File organization

► Select only one record per query

Question No: 20 (Marks: 1) - Please choose one

Which of the following is not true regarding Indexes?

► Index can be defined even when there is no data in the table

► It support Range selections

► It can be created using ‘Create Index’ statement

► It can not be created on composite attributes

Question No: 21 (Marks: 1) - Please choose one

Which of the following is used to remove a DB view?

► Del

► Drop

► Remove

► Append

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Question No: 22 (Marks: 1) - Please choose one

Which of following is not the feature of Indexes?

► consume storage space.

► must be refreshed when the data in their master tables changes

► improve the performance of SQL execution when they are used for query rewrites

► can be accessed directly using a SELECT statement

Question No: 23 (Marks: 1) - Please choose one

While recovering data, which of the following files does a recovery manager examines at first?

► A system file

► Log file

► Data dictionary

► Metadata

Question No: 24 (Marks: 1) - Please choose one

Which of the following serves as a milestone or reference point in the log file?

► Constraints

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► Relations

► Check points

► Transactions identities

Question No: 25 (Marks: 1) - Please choose one

The main memory of a computer system is also known as

► ROM

► RAM

► PROM

► Hard disk

Question No: 26 (Marks: 1) - Please choose one

Which of the following is not a feature of effective interface?

► Effective interfaces can require more work to implement

► An effective user interface minimizes the time users require to learn and implement the system.

► It helps users to accomplish their tasks and otherwise gets out of the way.

► An effective interface imposes its requirements on users.

Question No: 27 (Marks: 1) - Please choose one

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Which of the following is not a type of user interface?

► Text based

► Graphical User Interface (GUI)

► Forms

► DB tables

Question No: 28 (Marks: 1) - Please choose one

_____is a control that enables users to select one option from an associated list; users can also type an option.

► Combo box

► Button

► Text box

► Static area

Question No: 29 (Marks: 1) - Please choose one

Which of the following is an example of non-volatile memory?

► RAM

► Main memory

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► Flash memory

► CPU

Question No: 30 (Marks: 1) - Please choose one

Which of the following is an example of volatile memory?

► RAM

► ROM

► Flash memory

► CPU

Question No: 31 (Marks: 1)

What does 2PL stand for?

Question No: 32 (Marks: 1)

Which DML statement is used to modify rows of tables?

Question No: 33 (Marks: 2)

Briefly describe any two properties of Transactions?

Question No: 34 (Marks: 2)

In which situation do we need SELF JOIN?

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Question No: 35 (Marks: 3)

In context with Transaction, what does the ACID stand for?

Question No: 36 (Marks: 3)

Write any three advantages of standard SQL.

Question No: 37 (Marks: 3)

Shortly explain BYTE data field?

Question No: 38 (Marks: 5)

Write a statement to create a table named "Person", with four columns. The column names will be "LastName", "FirstName", "Address", and "Age".

Question No: 39 (Marks: 5)

Write any five features of VIEWS in databases.

Question No: 40 (Marks: 10)

Write the syntax to create an updatable view named 'clerk' of all clerks in the 'employees' table. Only the employees' IDs, last names, department numbers, and jobs are visible in this view, and these columns can be updated only in rows where the employee is a kind of clerk (i-e either `PU_CLER or SH_CLERK)`

Question No: 41 (Marks: 10)

How does an RM (Recovery Manager) performs recovery procedure? What are check points? Explain its importance in recovery procedure.

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