

FBQ1: \_\_\_\_\_ system is theoretically capable of making decisions for a user based on input supplied.

Answer: Expert

FBQ2: \_\_\_\_\_ system typically helps managers to keep track of daily transactions as well as make decision on when to place orders, make shipments and so on.

Answer: Transaction Processing System

FBQ3: \_\_\_\_\_ provides mechanisms for storing, organising, retrieving and modifying data for many users.

Answer: Database management system (DBMS)

FBQ4: SQL is an acronym for \_\_\_\_\_

Answer: Structured Query Language

FBQ5: \_\_\_\_\_ control manages the changes by a logical group of SQL statements.

Answer: Transaction

FBQ6: \_\_\_\_\_ clause of the SQL statement is used to view the structure of any database table

Answer: Describe

FBQ7: You have been employed as a Database Administrator in Godiya International Company and are tasked with extracting data from the company's database. The most appropriate SQL statement to use is the \_\_\_\_\_ statement.

Answer: SELECT

FBQ8: When considering RDBMS, a \_\_\_\_\_ is a collection of related data entries consisting of columns and rows.

Answer: Table

FBQ9: \_\_\_\_\_ part of SQL permits database tables to be created or deleted. It also defines indexes (keys), specify links between tables, and impose constraints between tables.

Answer: DDL

FBQ10: In a table containing duplicate values, the \_\_\_\_\_ keyword is use to select only unique values with the SQL SELECT statement

Answer: DISTINCT

FBQ11: \_\_\_\_\_ clause is used to filter records retrieved from a database with SQL

Answer: Where

FBQ12: To filter records based on more than one condition you use the \_\_\_\_\_ operator

Answer: AND

FBQ13: You have been asked to retrieve records from a database sorted in a particular manner. The \_\_\_\_\_ keyword is used to sort the result-set by a specified column.

Answer: ORDER BY

FBQ14: In SQL, the \_\_\_\_\_ statement is used to insert new records or a new row in a table of a database.

Answer: INSERT INTO

FBQ15: In SQL, the \_\_\_\_\_ statement is used to modify existing records in a table of a database.

Answer: UPDATE

FBQ16: In SQL, the \_\_\_\_\_ statement is used to remove records and rows in a table of a database.

Answer: DELETE

FBQ17: In SQL, the \_\_\_\_\_ statement can be used to extract data from two different tables to form a new table.

Answer: SELECT

FBQ18: In a table, if a row lacks the data value for a particular column, that value is said to be, or to contain a \_\_\_\_\_ value

Answer: Null

FBQ19: A \_\_\_\_\_ is an organized body of related information that is organized so that it can be easily accessed, managed and updated.

Answer: database

FBQ20: \_\_\_\_\_ enforce rules at the table level whenever a row is inserted, updated, or deleted from that table.

Answer: Constraints

FBQ21: \_\_\_\_\_ specifies that a column or combination of columns whose values must be distinct and not duplicated for all rows in the table

Answer: UNIQUE

FBQ22: \_\_\_\_\_ specifies a condition that must be true

Answer: CHECK

FBQ23: \_\_\_\_\_ is an API for the Java programming language that defines how a client may access a database.

Answer: Jdbc

FBQ24: You have been asked to access a database using JDBC, the first step you would take is to load the \_\_\_\_\_

Answer: Driver

FBQ25: In accessing a database using JDBC, to get an instance of Connection, the \_\_\_\_\_ method of the DriverManager class has to be called

Answer: getConnection()

FBQ26: The rows retrieved by the execution of a SQL query are given back by JDBC in the form of a \_\_\_\_\_ object

Answer: ResultSet

FBQ27: A \_\_\_\_\_ model represents entities and relationships between the entities.Â

Answer: Conceptual

FBQ28: \_\_\_\_\_ can be represented by combining representations of associated entities and properties of their association.

Answer: Relationship

FBQ29: A \_\_\_\_\_ dependency is a constraint between two sets of attributes in a relation from a database

Answer: Functional

FBQ30: The \_\_\_\_\_ of a set of dependencies is the set of all possible dependencies that can be derived from it.

Answer: closure

FBQ31: First norm form (1NF), Second norm form (2NF) and#####Third norm form (3NF) are all techniques for \_\_\_\_\_

Answer: Â

FBQ32: When tagging XML documents, we use \_\_\_\_\_ to give meaning to the different elements

Answer: Namespaces

FBQ33: XML documents are made up of storage units called \_\_\_\_\_, which contain either parsed or unparsed data.

Answer: entities

FBQ34: \_\_\_\_\_ operator is used before a character if it is an operator and it does not consider it as a character and if we put it before a letter it is a constant.

Answer: Backslash \

FBQ35: Which operator (or character) is used to signify the start of a line in a regular expression

Answer: \$

MCQ1: Acme Inc. is a global company specialising in the sales of wallets. Which type of information systems is most appropriate for recording and storing the number of goods sold and their inventory?

Answer: Transaction processing system

MCQ2: Which type of information systems is used to make difficult decisions when not every relevant parameter is known beforehand?

Answer: Decision support systems

MCQ3: Which type of information system is built by modelling the thought processes and decision-making heuristics of recognised professional in a particular field?

Answer: Expert systems

MCQ4: The following options describe typical functions of an Information System Department EXCEPT \_\_\_\_\_

Answer: Providing computers for sale to staff.

MCQ5: The following options are examples of various types of Decision Support Systems EXCEPT \_\_\_\_\_

Answer: Manager information system

MCQ6: The following options describe the various categories into which SQL statement can be divided into EXCEPT

Answer: Data Retrieval Language (DRL)

MCQ7: Which option describes the category of SQL statements that retrieves data from the database, enters new rows, changes existing rows, and removes unwanted rows from tables in the database?

Answer: Data Manipulation Language (DML)

MCQ8: Which option describes the category of SQL statements that sets up, changes and removes data structures from tables?

Answer: Data Definition Language (DDL)

MCQ9: Which option describes the category of SQL statements that gives or removes access rights to both a database and the structures within it?

Answer: Data Control Language (DCL)

MCQ10: The following options are examples of valid rules for the construction of SQL statements EXCEPT

Answer: Indents cannot be used when writing SQL statements

MCQ11: The following options are all summaries of the functions of SQL EXCEPT

\_\_\_\_\_.  
Answer: SQL can create reports from a database

MCQ12: To build a website that utilises data from a database, you will need all of the following EXCEPT

Answer: XML

MCQ13: Which option is the SQL statement used to add new tables to a database?

Answer: CREATE TABLE

MCQ14: When filtering records from database using SQL, which of the following

options is NOT a valid operator?

Answer: Approximate

MCQ15: The following options describe the classification of database according to their organisational approach EXCEPT?

Answer: Demand driven database

MCQ16: Which of the following options is NOT a database object?

Answer: Record

MCQ17: Which of the following options is NOT an implementation or driver supported by JDBC?

Answer: Internet Protocol Driver

MCQ18: Which of the following options is NOT a typical step used to access a database with JDBC?

Answer: Loading the database object

MCQ19: Which of the following options is NOT a type of statement provided by JDBC based on the type of query to be executed?

Answer: ProcedureStatement

MCQ20: Which of the following options is NOT a step that a query passes through when sent to the database server?

Answer: Processing the query

MCQ21: All the following options are techniques for data modelling EXCEPT

\_\_\_\_\_.  
Answer: Abstract Modelling

MCQ22: You have been asked to prepare a schema design for a new database, which of the following options would NOT be taken into consideration in the initial design?

Answer: When do the users want to pay for the database design?

MCQ23: The following options are classifications of functional dependency EXCEPT

\_\_\_\_\_.  
Answer: Associative functional dependency

MCQ24: There are basically five kinds of keys which are sets of attributes of a relation functionally depending on one or more attributes of the relation, which of the following options is NOT one of them?

Answer: Singular key

MCQ25: The stepwise formal process that allows the decomposition of database tables in such a way that both data redundancy and update anomalies are minimized is known as \_\_\_\_\_.

Answer: Database normalization

MCQ26: When writing regular expressions, which of the following options would select

only one sequence of alphabetical characters?

Answer: [a-zA-Z]

MCQ27: When writing regular expressions, which operator is NOT used for class repetition?

Answer: /

MCQ28: Which of the following options is NOT the character or string equivalent of this regular expression [a-zA-z0-9\_\.\.]+@[a-zA-Z0-9-]+\.[a-zA-Z]{0,4}?

Answer: Computer\_Science@noun.school

MCQ29: The following options are all examples of aggregate functions in Relational Algebra EXCEPT \_\_\_\_\_.

Answer: MODE

MCQ30: The Web Service Architecture (WSA) is intended to provide a common definition of a Web service, and define its place within a larger Web services framework to guide the community. The following options are all examples of the characteristics of WSA EXCEPT \_\_\_\_\_.

Answer: Repeater

MCQ31: The following options are all common terms used to describe parts of an XML document EXCEPT \_\_\_\_\_.

Answer: Node

MCQ32: Which of the following options is NOT an advantage of using XML documents on the web?

Answer: Produces smaller documents

MCQ33: The following options are all characteristics of a well formed XML document EXCEPT \_\_\_\_\_.

Answer: Elements are not case sensitive

MCQ34: Which of the following option is NOT an advantage of XML schema over DTD?

Answer: Are faster to parse

MCQ35: To allow for recovery in the event of a database failure, the database recovery logs store information on all of the following EXCEPT \_\_\_\_\_.

Answer: Creation of new views