J15 EDUCATIONAL CONSULTS

MOTTO: BRINGING KNOWLEDGE TO YOUR DOORSTEP

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CIT208: INFORMATION SYSTEMS

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WSA stands for
Web Services Architecture

What is Web Service Security?
defines how to use XML Encryption and XML Signature in SOAP to secure message exchanges as an alternative or extension to using HTTPS to secure the channel

Web service ---
describes a standardized way of integrating Web-based applications using the XML

How is SOAP used?
To transfer data

……..names can be given to database objects by using synonyms
Alternative

….. names can be given to database objects by using synonyms
Alternative

UDDI is used ---
for listing what services are available

A type of decision support system that is geared primarily toward high-level senior managers is
the Executive Information System (EIS)

With the WHERE clause, the --- operator Searches for a pattern
LIKE

……is used to view the structure of a database table
Decide clause

What are Information Systems used to analyze operational activities called?
management information systems

Management reporting system is a/an
MIS

The most common view of an information system is one of
Input-Process-Output

SQL SELECT Syntax:SELECT column_name(s) FROM
table_name

The specific technologies of information technology are:
Computer and data communication

The basis of RDBMS is ---
SQL

What is a transaction processing system?
record and track an organization's transactions such as sales transactions or inventory items from the moment each is first created until it leaves the system

SQL --- are not case sensitive
case inclusives
statements

The --- operator displays a record if both the first condition and the second condition is true
AND

What do you understand by conceptual model?
conceptual model represents 'concepts' (entities) and relationships between them

WSA provides ---
a conceptual model and a context for understanding Web services and the relationships between the components of this model

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Web Services Architecture

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……. names can be given to database objects by using synonyms
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UDDI is used ---
for listing what services are available

A null value is ---
a value that is unavailable

Database constraints are defined ---
over a schema

For numeric values, the correct statement is

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SELECT * FROM Persons WHERE Year=1965

What do we use to tag data?
XML

WSDL is used for ---
describing the services available

SQL SELECT DISTINCT Syntax
SELECT DISTINCT column_name(s) FROM table_name

The relational algebra is a --- query language
non-procedural

A decomposition of a relation schema R consists of --- the relation schema by two or more relation schema that each contain a subset of the attribute of R and together include all the
replacing

A --- model represents 'concepts' (entities) and relationships between them
conceptual

What is used to access and manipulate databases?
SQL

JDBC stands for
Java Database Connectivity

A --- is the basic storage structure of a Relational Database Model
table

Which system helps to arrive at a decision?
ES

A computer database relies upon software to organize the storage of data. This software is known as a
database management system

The --- model is explicitly chosen to be independent of implementation details
conceptual

We use --- to do Projection, selection and joining
SELECT statement

Which system supports "what if" analysis?
DSS

The --- clause is used to filter records
WHERE

A --- most often contains one or more tables
database

The study of --- systems originated as a sub-discipline of computer science in an attempt to understand

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and rationalize the management of technology within an organization
information

We use the following SELECT statement to select all the columns from the "Persons" table
SELECT * FROM Persons

Expert system can make decision
No

The --- type specifies what type of data the column can hold
data

We use --- to access and manipulate databases
SQL

SQL --- are basically divided into four
statements

The most common view of an information --- is one of Input-Process-Output
system

SQL CREATE TABLE Syntax: CREATE TABLE_____
table_name

Database constraints can be defined over a
schema

Entities are
Concepts

XML documents are made up of --- units called entities
storage

_____ system is theoretically capable of making decisions for a user based on input supplied.
Answer: Expert

_____ 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

_____ provides mechanisms for storing, organising, retrieving and modifying data for many users.
Answer: Database management system (DBMS)

SQL is an acronym for _____
Answer: Structured Query Language

_____ control manages the changes by a logical group of SQL statements.

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Answer: Transaction

_____ clause of the SQL statement is used to view the structure of any database table
Answer: Describe

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

When considering RDBMS, a _____ is a collection of related data entries consisting of columns and rows.
Answer: Table

_____ 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

In a table containing duplicate values, the _____ keyword is use to select only unique values with the SQL SELECT statement
Answer: DISTINCT

_____ clause is used to filter records retrieved from a database with SQL
Answer: Where

To filter records based on more than one condition you use the _____operator
Answer: AND

You have been asked to retrieve records from a database sorted is a particular manner. The _____ keyword is used to sort the result-set by a specified column.
Answer: ORDER BY

In SQL, the _____ statement is used to insert new records or a new row in a table of a database.
Answer: INSERT INTO

In SQL, the _____ statement is used to modify existing records in a table of a database.
Answer: UPDATE

In SQL, the _____ statement is used to remove records and rows in a table of a database.
Answer: DELETE

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In SQL, the _____ statement can be used to extract data from two different tables to form a new table.
Answer: SELECT

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

A _____ is an organized body of related information that is organized so that it can be easily accessed, managed and updated.
Answer: database

_____ enforce rules at the table level whenever a row is inserted, updated, or deleted from that table.
Answer: Constraints

_____ specifies that a column or combination of columns whose values must be distinct and not duplicated for all rows in the table
Answer: UNIQUE

_____ specifies a condition that must be true
Answer: CHECK

_____ is an API for the Java programming language that defines how a client may access a database.
Answer:

You have been asked to access a database using JDBC, the first step you would take is to load the _____
Answer: Driver

In accessing a database using JDBC, to get an instance of Connection, the _____ method of the DriverManager class has to be called
Answer: getConnection()

The rows retrieved by the execution of a SQL query are given back by JDBC in the form of a _____ object
Answer: ResultSet

A _____ model represents entities and relationships between the entities.
Answer: Conceptual

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_____ can be represented by combining representations of associated entities and properties of their association.
Answer: Relationship

A _____ dependency is a constraint between two sets of attributes in a relation from a database
Answer: Functional

The _____ of a set of dependencies is the set of all possible dependencies that can be derived from it.
Answer: closure

First norm form (INF), Second norm form (2NF) and#####Third norm form (3NF) are all techniques for _____
Answer:

When tagging XML documents, we use _____ to give meaning to the different elements
Answer: Namespaces

XML documents are made up of storage units called _____, which contain either parsed or unparsed data.
Answer: entities

_____ 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 **

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

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

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

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

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The following options describe typical functions of an Information System Department EXCEPT _____

Answer: Providing computers for sale to staff.

The following options are examples of various types of Decision Support Systems EXCEPT _____

Answer: Manager information system

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

Answer: Data Retrieval Language (DRL)

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)

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

Answer: Data Definition Language (DDL)

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)

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

Answer: Indents cannot be used when writing SQL statements

The following options are all summaries of the functions of SQL EXCEPT _____.

Answer: SQL can create reports from a database

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

Answer: XML

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

Answer: CREATE TABLE

When filtering records from database using SQL, which of the following options is NOT a valid operator?

Answer: Approximate

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

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

Which of the following options is NOT an implementation or driver supported by JDBC?
Answer: Internet Protocol Driver

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

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

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

All the following options are techniques for data modelling EXCEPT _____.
Answer: Abstract Modelling

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?

The following options are classifications of functional dependency EXCEPT _____.
Answer: Associative functional dependency

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

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

When writing regular expressions, which of the following options would select only one sequence of alphabetical characters?
Answer: [a-zA-Z]

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

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

The following options are all examples of aggregate functions in Relational Algebra EXCEPT _____.
Answer: MODE

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

The following options are all common terms used to describe parts of an XML document EXCEPT _____.
Answer: Node

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

The following options are all characteristics of a well formed XML document EXCEPT _____.
Answer: Elements are not case sensitive

Which of the following option is NOT an advantage of XML schema over DTD?
Answer: Are faster to parse

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

What is DDL?
Data Definition Language

A --- is an association between two or more entities
relationship

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An IS department typically provides:
solution

Transaction control manages the changes made by the_____
DML statements

XML is short for
Extensible Markup Language

IS stands for
Information System

SQL comprises
DML and DDL

DDL is used to
change and remove data structures from tables

The study of information systems attempts to understand and rationalize the management of **technology** within ---
organization

One of the basic categories of SQL statements is
DCL

SQL statements are not --- sensitive
case

DML is used to
retrieve data from the database

……..is one of the two most common forms of interaction in a conceptual model
Sharing data

What is ISO?
International Organization for Standardization

What do you understand by a conceptual model?
A conceptual model represents 'concepts' (entities) and relationships between them

DCL is used to
give or remove access rights to both a database and the structures within

What is SQL?
Structured Query Language

Transaction Control is used to
manage the changes made by the DML statements

SQL SELECT statement is used
to extract data from the database

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MIS stands for
Management Information System

Expert system does not permit ---
what-if analysis

Can SQL statements be entered on one or many lines?
Yes

…….is used to organize the storage of data in a database
Database management system

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