Weekly Test 1

Points:

29/50

Time:

51:26

1

Please Enter Your Full Name



**Correct**

1/1 Points

2

\_\_\_\_\_\_\_\_is a number of transactions processed in given time interval.

Transaction throughput

Response time

Disk storage

Transaction usage map

**Correct**

1/1 Points

3

Which one of the following is false about Functional dependencies (FD)

FD are the relationships among the attributes within a relation.

FD is a kind of constraint that helps to remove redundancy in relational database design

Attribute “B” is FD upon attribute “A” if a value of “B” determines or single value of attributes “A” at only one time

FD provide a formal mechanism to express constraints between attributes

**Incorrect**

0/1 Points

4

Which of the following is not true FD “Student ID *→ GPA”.*

“Student ID” determines “GPA”

“GPA” is functionally dependent on “student ID”

“Student ID” is called determinant

“Student ID” is called object of the determinant

**Incorrect**

0/1 Points

5

Which normalization is based on the concept of functional dependency:

1NF

2NF

3NF

4NF

**Correct**

1/1 Points

6

Which one of the following relation operations is not unary relation?

Selection

Projection

Rename

Union

**Incorrect**

0/1 Points

7

Which join operation returns all records from the left table, and the matched records from the right table. The result is NULL from the right side, if there is no match.

Right outer join

left outer join

full outer join

inner join

**Incorrect**

0/1 Points

8

Which of the following are the process of selecting the data storage and data access characteristics of the database?

Logical database design

Testing and performance tuning

Physical database design

Evaluation and selecting

**Correct**

1/1 Points

9

SQL operation which are used to give a table, or a column in a table, a temporary name and are often used to make column names more readable and exists for the duration of the query

Aliases

Update

Rename

Alter

**Correct**

1/1 Points

10

Which one of the following is not true about normalizations

If there is no transitivity between an attribute in a given table it is possible to say in 2NF

If a table in in 3NF it possible say in 1NF and 2NF

Normalization facilitates the enforcement of data constraint

To make in 3NF, first it must be in 1NF and 2NF

**Correct**

1/1 Points

11

Which of the following is the correct order of keywords for SQL SELECT statements?

WHERE, FROM, SELECT

SELECT, FROM, WHERE

FROM, WHERE, SELECT

SELECT, WHERE, FROM

**Correct**

1/1 Points

12

What are the characteristics of a database system?

Independence, redundancy, integrity, security, flexibility

Dependence, redundancy, integrity, security, flexibility

Independence, redundancy, pressure, security, flexibility

Dependence, redundancy, pressure, security, flexibility

**Correct**

1/1 Points

13

What are some applications of a database system?

Healthcare, finance, education, manufacturing

Agriculture, fashion, entertainment, sports

Travel, hospitality, fitness, technology

None of the above

**Incorrect**

0/1 Points

14

What are the three models of a database?

Relational, structured, unstructured

Non-relational, semi-structured, normalised

Hierarchical, relational, network

Structured, semi-structured, unstructured

**Correct**

1/1 Points

15

Which model of database is used in most modern applications?

Hierarchical

Relational

Network

All of the above

**Correct**

1/1 Points

16

What is the purpose of a primary key in a database?

To identify unique records

To identify non-unique records

To delete records

To modify records

**Correct**

1/1 Points

17

What is normalization in a database?

A process of optimizing database indexing

The process of removing unwanted data

The process of organizing data to reduce redundancy and dependency

A process of manipulating data

**Correct**

1/1 Points

18

What is a relationship in a database?

A logical link between two tables

A physical link between two tables

A link between two tables and their data

None of the above

**Correct**

1/1 Points

19

What is an index in a database?

A physical representation of the data

A logical representation of the data

A physical structure that enhances the performance of data retrieval

A logical structure that enhances the performance of data retrieval

**Correct**

1/1 Points

20

What is a join in a database?

A database operation that combines rows from two tables

A database operation that sorts data in a table

A database operation that modifies data in a table

A database operation that deletes data in a table

**Correct**

1/1 Points

21

What is SQL in a database?

A programming language used to manage data in a relational database

A programming language used to manage data in a non-relational database

A programming language used to manage data in a hierarchical database

A programming language used to manage data in a network database

**Incorrect**

0/1 Points

22

What is an ER diagram in a database?

A diagram that represents the logical structure of a database

A diagram that represents the physical layout of a database

A diagram that represents the relationship between tables in a database

A diagram that represents the relationship between data in a database

**Correct**

1/1 Points

23

Which of the following is not a method for optimizing a database?

Indexing

Partitioning

Normalization

Increasing the size of the database

**Incorrect**

0/1 Points

24

Which of the following is not a benefit of normalization?

Improved efficiency

Easier data management

Increased storage capacity

Fewer data inconsistencies

**Correct**

1/1 Points

25

What is the purpose of database security?

To prevent unauthorized access to data

To improve database performance

To expand the storage capacity of the database

To streamline database queries

**Correct**

1/1 Points

26

Which of the following is not a method for securing a database?

Encryption

Authentication

Authorization

Increasing the size of the database

**Correct**

1/1 Points

27

What is authorization in database security?

The process of granting or denying access to specific database objects

The process of encrypting sensitive data

The process of creating new user accounts

The process of backing up the database

**Incorrect**

0/1 Points

28

Which of the following is an example of a database constraint?

A unique index on a database table

A stored procedure that calculates sales tax

A view that combines data from multiple tables

A trigger that fires when new data is inserted into a table

**Correct**

1/1 Points

29

Which of the following is the correct first step in designing an ER model?

Identify the entities and their attributes

Determine the relationships between entities

Establish primary keys for all entities

Define data types and constraints for all attributes

**Incorrect**

0/1 Points

30

What is the purpose of an ER model?

To identify the relationships between entities

To design the physical schema of a database

To describe the data that will be stored in a database

To allow users to query the database using SQL

**Incorrect**

0/1 Points

31

Which of the following is an example of a relationship between entities?

Age

First name

Address

Order

**Incorrect**

0/1 Points

32

Which of the following is an example of a many-to-many relationship?

Customer order product

Employee manage department

Country have capital city

Student enroll in course

**Correct**

1/1 Points

33

Which of the following is the correct syntax for creating a table in SQL?

INSERT INTO table\_name VALUES (value1, value2, ...);

SELECT \* FROM table\_name;

CREATE TABLE table\_name (column1 datatype, column2 datatype, ...);

UPDATE table\_name SET column1 = value1 WHERE condition

**Correct**

1/1 Points

34

Which of the following is the correct syntax for joining two tables in SQL?

SELECT \* FROM table1 JOIN table2 ON column1 = column2;

SELECT \* FROM table1 WHERE condition1 AND condition2;

SELECT \* FROM table1 ORDER BY column1;

SELECT COUNT(\*) FROM table1 WHERE condition1;

**Incorrect**

0/1 Points

35

What will be the output of the following PHP Code?

Welcome to Sanfoundry

No output

1000 PHP MCQ

Error

**Correct**

1/1 Points

36

Choose the equivalent of the statement: $sub -=$sub

$sub=$sub-1

$sub=$sub-$sub

$sub=$sub-$sub-1

$sub=$sub

**Correct**

1/1 Points

37

trim() function in PHP is used to :

Change upper cases to lower cases

Change lower cases to upper cases

Removes white space

Removes underscores

**Incorrect**

0/1 Points

38

Suppose you have attributes to be inherited from the superclass to a sub class in case you are intended to protect it from further inheritance. So that which access specifies is used.

Protected

Private

Public

Final

**Incorrect**

0/1 Points

39

Calculating the memory location in any programming Language is s typical operation. In case of a given alpha numeric characters “PHP\_5.3”, if you use the function FILESIZE() to find the actual size of the given alpha numerics, it will return in:

Bit

Byte

Killo byte

Mega byte

**Incorrect**

0/1 Points

40

In a case of providing security for a web based program, it can be realized in one of the following except :

Adding security parameters to a cookie() functions to make encrypted file transfer over the protocol

Saving user input parameters served as password by using md5 and related encryption techniques

Saving user input parameters served as password using SSL encryption techniques

Adding expiry parameters to a cookie() functions to make encryptions and set it to valued 1

**Incorrect**

0/1 Points

41

There are three critical issues while developing a software including time, cost and quality. These software attributes in one hand provides quality software as per the end users desire and on the other hand takes too much time and cost. So as to be effective to satisfy the end users desire a software team can incorporate one of the following.

Scheduling algorithms

Frameworks

Operating system

Catch memory

**Incorrect**

0/1 Points

42

Behind any web based applications, there exist a requirements of security and performance ambiguity. The first line of security and performance while using php can be evaluated respectively in line with:-

Issue of cookies and load performance testing

Issue of sessions and load performance testing

Issue of sessions, hash functions, salting and load performance testing

Issue of cookies, hashing functions, salting and load performance testing

**Correct**

1/1 Points

43

It is clear that the primary objective of developing a software is according to user desire. In such a case, users may need different levels of software based on their purpose. Even if using unstructured software development method is preferred by software teams, users may request based on structured paradigm. What do you think the rationale behind their desire.

Nature of the software to be developed may be purposefully designed as legacy system

Almost all requirements to develop a software in hands of the end user

All requirements of a software to be developed in hands of the end user

All

**Incorrect**

0/1 Points

44

Of all the typical frameworks used by PHP, the one is limited in its functionality

Laravel

Laminas Project

CodeIgniter

Slim

**Correct**

1/1 Points

45

assume that your customer invites you to develop a web-based system that is fully capable of fostering E-marketing then which php method is not recommended.

get() method

post() method

include() Method

requires method.

**Incorrect**

0/1 Points

46

what makes different a php variable from other programming languages?

Its nature of intermediary before its early declarations

Its nature of naming conventions that prescribed as non-case sensitivity

its nature of unlimited size while defining a variable.

None

**Correct**

1/1 Points

47

suppose your customer requites you to develop a dynamic web-based system, then what software tools are incorporated in doing so?

HTML and Associated style sheets

HTML, CSS and JavaScript

C.Javascripts only

CSS3 AND HTML 5 only

**Correct**

1/1 Points

48

No matter how you have fully flogged content about a web-based system development or not, the followings are expected features of a web-based system except:

Multiple users can access the same version of an application.

Users always need to install the app.

Users can access the app through various platforms such as a desktop, laptop or mobile.

Users can access the app through multiple browsers.

**Incorrect**

0/1 Points

49

Of the top ranked challenges experienced while developing a web-based application includes cross platform compatibility. To ensure this, as a system developer you can manage it through:

Incorporating multipurpose frameworks

Dynamic web app development tools

Comprehensive testing

advanced system development paradigms

**Incorrect**

0/1 Points

50

*Which one of the following entities is an object with conceptual existence*

Teacher

Animal

Position

Car

**Correct**

1/1 Points

51

*What is a view in a database?*

A physical representation of the data

A virtual table created from the data in one or more tables

A logical representation of the data

A physical structure that enhances the performance of data retrieval

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