

20 questions (20 points)

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1. Multiple Choice

30 seconds

1 point

AI

Edit

With MySQL, how can you return the number of records in the "Persons" table?

Answer choices

SELECT LEN(\*) FROM Persons

SELECT COLUMNS(\*) FROM Persons

SELECT COUNT(\*) FROM Persons

SELECT NO(\*) FROM Persons

2. Multiple Choice

30 seconds

1 point

AI

Edit

The following MySQL query selects all the records from table **Students** where the age is 19,20, or 21:

SELECT \* FROM Students WHERE Age BETWEEN 18 AND 22;

Answer choices

True

False

3. Open Ended

30 seconds

1 point

AI

Edit

Please Write a MySQL query to extract all the records from table **Students** where **Age** is 20.

Evaluate responses using AI: OFF

Answer explanation

SELECT \* FROM Students WHERE Age = 20;

4. Multiple Choice

30 seconds

1 point

AI

Edit

What does SQL stand for?

Answer choices

Structured Query Language

Strong Question Language

Structured Question Language

Sequential Query Language

5. Multiple Choice

30 seconds

1 point

AI

Edit

With SQL, how do you select a column named "FirstName" from a table named "Persons"?

Answer choices

EXTRACT FirstName FROM Persons

SELECT FirstName FROM Persons

SELECT Persons.FirstName

SELECT \* FROM FirstName;

☐

6. Multiple Choice

30 seconds

1 point

AI

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Edit

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With SQL, how do you select all the records from a table named "Persons" where the value of the column "FirstName" starts with an "a"?

Answer choices

SELECT \* FROM Persons WHERE FirstName LIKE '%a'

SELECT \* FROM Persons WHERE FirstName LIKE 'a%'

SELECT \* FROM Persons WHERE FirstName='%a%'

SELECT \* FROM Persons WHERE FirstName='a'

☐

7. Multiple Choice

30 seconds

1 point

AI

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Edit

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Which SQL statement is used to return only **unique (different)** values?

Answer choices

SELECT DISTINCT

SELECT DIFFERENT

SELECT UNIQUE

SELECT NEW

☐

8. Multiple Choice

30 seconds

1 point

AI

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Edit

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With SQL, how can you return all the records from a table named "Persons" sorted descending by "FirstName"?

Answer choices

SELECT \* FROM Persons ORDER FirstName DESC

SELECT \* FROM Persons SORT BY 'FirstName' DESC

SELECT \* FROM Persons SORT 'FirstName' DESC

SELECT \* FROM Persons ORDER BY FirstName DESC

☐

9. Multiple Choice

30 seconds

1 point

AI

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Edit

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With SQL, how can you insert a new record into the "Persons" table?

Answer choices

INSERT INTO Persons (FirstName, LastName) VALUES ('John', 'Doe');

ADD INTO Persons (FirstName, LastName) ('John', 'Doe');

INSERT (FirstName, LastName) INTO Persons VALUES ('John', 'Doe');

CREATE INTO Persons (FirstName, LastName) VALUES ('John', 'Doe');

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10. Multiple Choice

30 seconds

1 point

AI

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Edit

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How can you change "Hansen" into "Nilsen" in the "LastName" column in the Persons table?

Answer choices

MODIFY Persons SET LastName='Nilsen' WHERE LastName='Hansen'

UPDATE Persons SET LastName='Hansen' INTO LastName='Nilsen'

UPDATE Persons SET LastName='Nilsen' WHERE LastName='Hansen'

MODIFY Persons SET LastName='Hansen' INTO LastName='Nilsen'

11. Open Ended

45 seconds

1 point

AI

Edit

Please finish the PHP code to **SELECT** all the records from table **Students**, and echo all records as a table in the webpage.

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "csc4410";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// write the query
$sql = "SELECT * FROM students";
// add your code here to make query & get result(Hint: mysqli_query() function)
$result =          ;
// use table to display the database table
echo "<table border='1'>"; // table start
// table rows
// add your code here to fetch the resulting rows as an array.
// Get row from database table using while loop(Hint: mysqli_fetch_assoc() function)
echo "</table>"; // table end
$conn->close();
?>
```

Evaluate responses using AI: **OFF**

#### Answer explanation

```
(1) $result = mysqli_query($conn, $sql);
(2)
echo "<table border='1'>";
while ($row = mysqli_fetch_assoc($result))
{
    echo "<tr>";
    foreach ($row as $value)
    {
        echo "<td>" . $value . "</td>";
    }
    echo "</tr>";
}
echo "</table>";
```

12. Multiple Choice

30 seconds

1 point

AI

Edit

What is a database?

Answer choices

A programming language for web development

An organized collection of data that can be easily accessed, managed, and updated

A software for designing websites

A way to create animations

☐

13. Multiple Choice

30 seconds

1 point

AI

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Edit

☐

What is the main difference between SQL and MySQL?

Answer choices

SQL is software; MySQL is a language.

They are exactly the same.

SQL is used only for big data; MySQL is not.

SQL is a language; MySQL is software.

☐

14. Multiple Choice

30 seconds

1 point

AI

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Edit

☐

In an Relational Database Management System, how is data primarily stored?

Answer choices

In images

In one long text document

In tables with rows and columns

In scattered files across disks

☐

15. Fill in the Blank

30 seconds

1 point

AI

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Edit

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In a PHP + MySQL connection, what is the default username for XAMPP?

Answer

root

☐

16. Fill in the Blank

30 seconds

1 point

AI

☐☐

Edit

☐

Complete the following PHP code to connect to a MySQL database using the correct object-oriented syntax:

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "CSCI4410";
// Create a connection
$conn = new _____($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
echo "Connected successfully";
?>
```

Answer

mysqli

☐

17. Multiple Choice

30 seconds

1 point

AI

☐☐

Edit

☐What is a **Primary Key** in a database table?

Answer choices

A column that uniquely identifies each record

A duplicate value allowed for each record

A temporary ID assigned to data

A backup of all table rows

☐

18. Multiple Choice

30 seconds

1 point

AI

☐☐

Edit

☐In the students table, which line ensures **automatic ID assignment**?

Answer choices

id INT NOT NULL PRIMARY KEY

id VARCHAR(100) PRIMARY KEY

id INT NULL PRIMARY KEY

id INT AUTO\_INCREMENT PRIMARY KEY

☐

19. Multiple Choice

30 seconds

1 point

AI

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Edit

☐What is a **composite key**?

Answer choices

A primary key that is made from combining multiple columns

A key made from text only

A secondary backup key

A key created using numbers only

☐

20. Multiple Choice

30 seconds

1 point

AI

☐☐

Edit

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Which command correctly creates a database in MySQL?

Answer choices

MAKE DATABASE school;

CREATE DATABASE school;

CREATE TABLE school;

DATABASE CREATE school;

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