**String Functions Assessment Question: Real-Life Scenario**

**Scenario:**

You are managing a customer database for an e-commerce platform. The platform stores customer details in a table called Customers. The structure of the Customers table is as follows:

| **Column Name** | **Data Type** | **Description** |
| --- | --- | --- |
| CustomerID | INT | Unique identifier for each customer. |
| FirstName | VARCHAR(50) | First name of the customer. |
| LastName | VARCHAR(50) | Last name of the customer. |
| Email | VARCHAR(100) | Email address of the customer. |
| Username | VARCHAR(50) | Username chosen by the customer. |

**Tasks:**

1. **Convert Names to Uppercase:** Write a query to retrieve the FirstName and LastName of all customers in uppercase letters.

SELECT

UPPER(FirstName) AS FirstName,

UPPER(LastName) AS LastName

FROM Customers;

1. **Create Full Names:** Write a query to concatenate the FirstName and LastName into a single column called FullName, with a space between the names.

SELECT

CONCAT(FirstName, ' ', LastName) AS FullName

FROM Customers;

1. **Extract Username Initials:** Write a query to extract the first three characters of the Username for each customer.

SELECT

SUBSTRING(Username, 1, 3) AS Initials

FROM Customers;

1. **Calculate Email Lengths:** Write a query to determine the length of each customer's Email.

SELECT

LENGTH(Email) AS EmailLength

FROM Customers;

1. **Clean Up Username Spaces:** Write a query to remove any leading or trailing spaces from the Username field.

SELECT

TRIM(Username) AS CleanUsername

FROM Customers;

**Expected Output Examples**

If the Customers table contains the following data:

| **CustomerID** | **FirstName** | **LastName** | **Email** | **Username** |
| --- | --- | --- | --- | --- |
| 1 | John | Doe | john.doe@gmail.com | johndoe |
| 2 | Alice | Smith | [alice.smith@yahoo.com](mailto:alice.smith@yahoo.com) | alice |
| 3 | Bob | Brown | bob.brown@hotmail.com | bobby |

* **Task 1 Output:**

| **FirstName** | **LastName** |
| --- | --- |
| JOHN | DOE |
| ALICE | SMITH |
| BOB | BROWN |

* **Task 2 Output:**

| **FullName** |
| --- |
| John Doe |
| Alice Smith |
| Bob Brown |

* **Task 3 Output:**

| **Initials** |
| --- |
| joh |
| ali |
| bob |

* **Task 4 Output:**

| **EmailLength** |
| --- |
| 18 |
| 21 |
| 22 |

* **Task 5 Output:**

| **CleanUsername** |
| --- |
| johndoe |
| alice |
| bobby |