```
-----SOL ASSIGNMENT
                                                                                   P
  3-----
-- Sample Dataset
CREATE TABLE Customer (
CustomerID INT PRIMARY KEY,
FirstName VARCHAR(50),
LastName VARCHAR(50),
Email VARCHAR(100),
RegistrationDate DATE
);
INSERT INTO Customer (CustomerID, FirstName, LastName, Email,
RegistrationDate)
VALUES
(1, 'John', 'Doe', 'john.doe@example.com', '2023-01-15'),
(2, 'Jane', 'Smith', 'jane.smith@example.com', '2022-11-30'),
(3, 'Michael', 'Johnson', 'michael.johnson@example.com', '2022-12-
05'),
(4, 'Emily', 'Brown', 'emily.brown@example.com', '2023-02-20'),
(5, 'David', 'Williams', 'david.williams@example.com', '2023-01-10');
--1. Aggregate Functions (SUM, MAX, MIN)
--SUM (Email Length)
SELECT SUM(LEN(Email)) AS TotalEmailLength
FROM Customer;
--MIN Example: Determine the earliest registration date among customers
SELECT MIN(RegistrationDate) AS EarliestRegistrationDate
FROM Customer;
--2. Data Conversion
-- Convert RegistrationDate to VARCHAR for Display:
SELECT CustomerID, FirstName, LastName, Email, CONVERT(VARCHAR(10),
  RegistrationDate, 120) AS RegistrationDate
FROM Customer;
-- 3.Deriving new column
-- Calculate Age from Registration Date
SELECT
    CustomerID,
    FirstName,
    LastName,
    Email,
    RegistrationDate,
    DATEDIFF(YEAR, RegistrationDate, '2024-06-18') AS CustomerAge
FROM Customer;
--4. Conditional Split
--Example: Split Email into Username and Domain
--username is before the '@' symbol and the domain is after it.
```

```
SELECT
```

```
CustomerID,
FirstName,
LastName,
Email,
SUBSTRING(Email, 1, CHARINDEX('@', Email) - 1) AS Username,
SUBSTRING(Email, CHARINDEX('@', Email) + 1, LEN(Email)) AS Domain
FROM Customer;
```