## Insert sample data into Tables

```
Create Database C21 DB1;
Go
Use C21 DB1;
-- Create the Departments Table
CREATE TABLE Departments (
DepartmentID INT PRIMARY KEY,
Name VARCHAR(50)
-- Insert sample data into Departments
INSERT INTO Departments (DepartmentID, Name) VALUES (1, 'Human
Resources');
INSERT INTO Departments (DepartmentID, Name) VALUES (2,
```

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'Marketing');
INSERT INTO Departments (DepartmentID, Name) VALUES (3, 'Sales');
INSERT INTO Departments (DepartmentID, Name) VALUES (4, 'IT');
Go
-- Create the Employees Table
CREATE TABLE Employees (
EmployeeID INT PRIMARY KEY,
Name VARCHAR(50),
DepartmentID INT,
HireDate DATE,
FOREIGN KEY (DepartmentID) REFERENCES
Departments(DepartmentID)
```

-- Insert sample data into Employees

INSERT INTO Employees (EmployeeID, Name, DepartmentID, HireDate)

VALUES (1, 'John Smith', 3, '2023-01-10');

INSERT INTO Employees (EmployeeID, Name, DepartmentID, HireDate)

VALUES (2, 'Jane Doe', 3, '2023-02-15');

INSERT INTO Employees (EmployeeID, Name, DepartmentID, HireDate)

VALUES (3, 'Emily Davis', 2, '2023-03-20');

INSERT INTO Employees (EmployeeID, Name, DepartmentID, HireDate)

VALUES (4, 'Michael Brown', 1, '2022-11-05');

INSERT INTO Employees (EmployeeID, Name, DepartmentID, HireDate)

VALUES (5, 'Sarah Miller', 4, '2023-01-05');

## -- Step 1: Declare variables

DECLARE @DepartmentID INT; -- Variable for department ID

DECLARE @StartDate DATE; -- Variable for start date

- DECLARE @EndDate DATE; -- Variable for end date DECLARE @TotalEmployees INT; -- Variable to hold the total number of employees
- DECLARE @DepartmentName VARCHAR(50); -- Variable for department name
- -- Step 2: Initialize variables
- SET @DepartmentID = 3; -- Assign a specific department ID SET @StartDate = '2023-01-01'; -- Set start date for the report SET @EndDate = '2023-12-31'; -- Set end date for the report
- -- Step 3: Retrieve department name based on department ID SELECT @DepartmentName = Name FROM Departments WHERE DepartmentID = @DepartmentID;
- -- Step 4: Calculate the total number of employees in the specified department

SELECT @TotalEmployees = COUNT(\*)

FROM Employees

WHERE DepartmentID = @DepartmentID

AND HireDate BETWEEN @StartDate AND @EndDate;

-- Step 5: Print the report

PRINT 'Department Report';

PRINT 'Department Name: ' + @DepartmentName;

PRINT 'Reporting Period: ' + CAST(@StartDate AS VARCHAR) + ' to ' +

CAST(@EndDate AS VARCHAR);

PRINT 'Total Employees Hired in ' + CAST(YEAR(@StartDate) AS

VARCHAR) + ': ' + CAST(@TotalEmployees AS VARCHAR);