

SOURCE CODE

```
CREATE DATABASE SIMPROJECTS
```

```
USE SIMPROJECTS
```

```
-- Create the STUDENTS table
```

```
CREATE TABLE STUDENTS (  
    ROLLNO INT PRIMARY KEY IDENTITY(1,1),  
    STUDENTNAME VARCHAR(20),  
    GENDER CHAR(1),  
    DATEOFBIRTH DATE  
);
```

```
-- Create the TEACHERS table
```

```
CREATE TABLE TEACHERS (  
    T_ID INT PRIMARY KEY IDENTITY(1,1),  
    T_NAME VARCHAR(20)  
);
```

```
-- Create the SUBJECTS table
```

```
CREATE TABLE SUBJECTS (  
    SUB_ID INT PRIMARY KEY IDENTITY(1,1),  
    SUB_NAME VARCHAR(20)  
);
```

```
-- Insert values into the STUDENTS table
```

```
INSERT INTO STUDENTS (STUDENTNAME, GENDER, DATEOFBIRTH)  
VALUES
```

```
    ('John Doe', 'M', '2000-01-15'),  
    ('Jane Smith', 'F', '2001-03-22'),  
    ('Michael Johnson', 'M', '1999-11-05'),  
    ('Emily Davis', 'F', '2002-07-10'),  
    ('Robert Miller', 'M', '2003-05-18'),  
    ('Olivia Brown', 'F', '2000-09-30'),  
    ('William Wilson', 'M', '2001-12-08'),  
    ('Sophia Taylor', 'F', '2002-04-25'),  
    ('David Anderson', 'M', '2003-08-12'),  
    ('Ava Martinez', 'F', '2000-06-14'),  
    ('James Harris', 'M', '2001-02-03'),  
    ('Emma Clark', 'F', '1999-10-20'),  
    ('Daniel Turner', 'M', '2002-11-07'),  
    ('Grace White', 'F', '2003-01-28'),  
    ('Matthew Lee', 'M', '2000-04-09'),  
    ('Chloe Garcia', 'F', '2001-07-17'),  
    ('Ethan Rodriguez', 'M', '2002-09-05'),  
    ('Lily Adams', 'F', '2003-03-12'),  
    ('Christopher Brown', 'M', '2000-12-23'),  
    ('Mia Wilson', 'F', '2001-08-19');
```

```
-- Verify the inserted data
```

```
SELECT * FROM STUDENTS;
```

```
-- Insert values into the TEACHERS table
```

```
INSERT INTO TEACHERS (T_NAME)
```

```
VALUES
```

```
    ('Mr. Smith'),  
    ('Mrs. Johnson'),  
    ('Dr. Davis'),  
    ('Miss Miller'),  
    ('Professor Wilson'),  
    ('Ms. Taylor');
```

```
    ('Mr. Anderson'),
    ('Dr. Martinez');

    -- Verify the inserted data
SELECT * FROM TEACHERS;

-- Insert values into the SUBJECTS table
INSERT INTO SUBJECTS (SUB_NAME)
VALUES
    ('Mathematics'),
    ('English'),
    ('Science'),
    ('History'),
    ('Computer Science'),
    ('Physics'),
    ('Biology'),
    ('Literature');

    -- Verify the inserted data
SELECT * FROM SUBJECTS;

CREATE INDEX idx_rollno ON STUDENTS (ROLLNO);

CREATE INDEX idx_t_id ON TEACHERS (T_ID)

CREATE INDEX idx_sub_id ON SUBJECTS (SUB_ID);
```