Database detail:

DB has been created using code first approach. Connection string is available in IdentityCore3.API.Appsetting.json

**Tables:** Below is the list of tables

1. SubjectMaster
2. Student
3. Subject

Table

Description automatically generated

Table

Description automatically generated

Graphical user interface, application, table

Description automatically generated

NOTE:

1. In subject Table StudentId and SubjectMasterId are having foreign key relationship with Student and SubjectMaster.
2. SubjectMaster data is added using data seeding option using migration.
3. UpdateStudent and deleteStudent operation has been done both LINQ as well as Store procedure.

Below is the list of available Web APIs:

Graphical user interface, application, email

Description automatically generated

1. Reading file from json and perform create and update:

<https://localhost:44381/api/StudentAPI/ReadUpdateFromJson>

Use Case : Available records will be checked in database if json student Id matches with database studentId then it will update the student detail by json file value other wise it will create new student with new Id.

NOTE: Student.json file present under wwwroot folder of API project. In this json file for each students subjects array object I kept subject’s Id as **SubjectMasterId** which is having foreign key relationship with SubjectMaster table

1. Create new Student:

<https://localhost:44381/api/StudentAPI/Create>

API Type: Post

1. Update existing Student:

<https://localhost:44381/api/StudentAPI/update>

API Type: PUT

1. Update Student using Store Procedure
2. <https://localhost:44381/api/StudentAPI/Update_Using_SP>

API Type PUT

1. Get All Students

<https://localhost:44381/api/StudentAPI/GetAll>

API Type: GET

1. Get Student By Id

https://localhost:44381/api/StudentAPI/GET/4

1. Delete Student

<https://localhost:44381/api/StudentAPI/delete/5>

API Type : Delete

1. Delete Student using store procedure

<https://localhost:44381/api/StudentAPI/Delete_Using_SP/4>

APU Type : Delete

We can use these apis to perform CURD operation on Student and their subject.

NOTE:

1. For Subject marks change there is not any additional api. Using existing Student api this will update all subject marks.
2. In json file under Subjects array object I kept subject’s Id as **SubjectMasterId** which is having foreign key relationship with SubjectMaster table.
3. For the request body we can refer swagger