**Library module**

**IPT - PROJECT**

**19K-0281 ANUSHA SAAD**

**19K-0354 SAMAN KHAN**

**19K-1517 HERMAIN QADIR**

**Section: H**

**SCHEMMA:**

Author(author\_id,name)

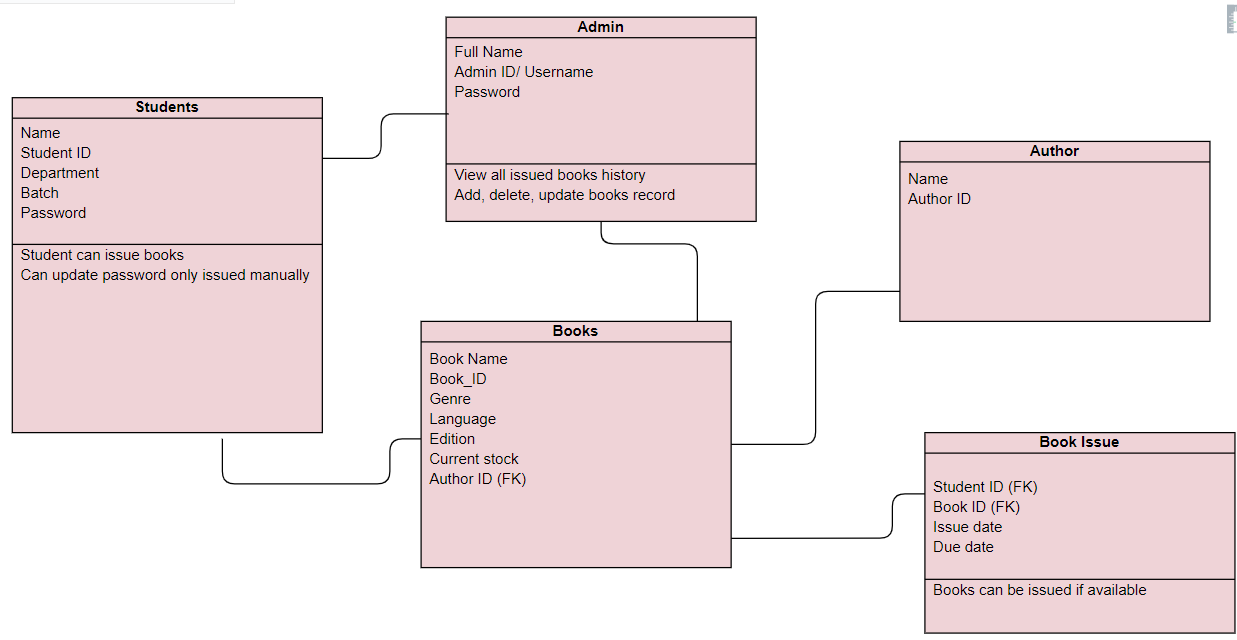
student(std\_id, name , dep , password)

admin(username/id, password, full name)

book\_master(book\_id, book\_name, genre, author\_id, editon, current\_stock, language)

book\_issue( std\_id, book\_id, issue\_date, due\_date)

**Class Diagram:**



**Query to generate Database:**

CREATE TABLE Author (

auth\_id VARCHAR(20) NOT NULL,

Name VARCHAR (25) NOT NULL,

PRIMARY KEY (auth\_id));

CREATE TABLE Student (

std\_id VARCHAR(20) NOT NULL,

Name VARCHAR(25) NOT NULL,

dept CHAR(5) NOT NULL,

Password VARCHAR(20) NOT NULL,

PRIMARY KEY( std\_id ) );

CREATE TABLE Admin (

Id VARCHAR(20) NOT NULL,

Name VARCHAR(25) NOT NULL,

Password VARCHAR(20) NOT NULL,

PRIMARY KEY( id ) );

CREATE TABLE Book\_Master(

b\_id VARCHAR(20) NOT NULL,

Name VARCHAR(25) NOT NULL,

Genre VARCHAR(15),

author\_id VARCHAR(20) FOREIGN KEY REFERENCES Author(auth\_id),

Edition INT NOT NULL,

Stock INT NOT NULL,

Language VARCHAR(15),

PRIMARY KEY( b\_id ) );

CREATE TABLE Book Issue(

s\_id VARCHAR(20) FOREIGN KEY REFERENCES Student(std\_id),

b\_id VARCHAR(25) FOREIGN KEY REFERENCES Book\_Master(b\_id),

Issue DATE,

Due DATE,

CONSTRAINT CHK\_1 CHECK (due>=issue)

);