

# Stevens Library Database Management System

## **GROUP 1:**

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## **MIS 630- Data and Knowledge Management**

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# Stevens Library Database Management System

## Outline:

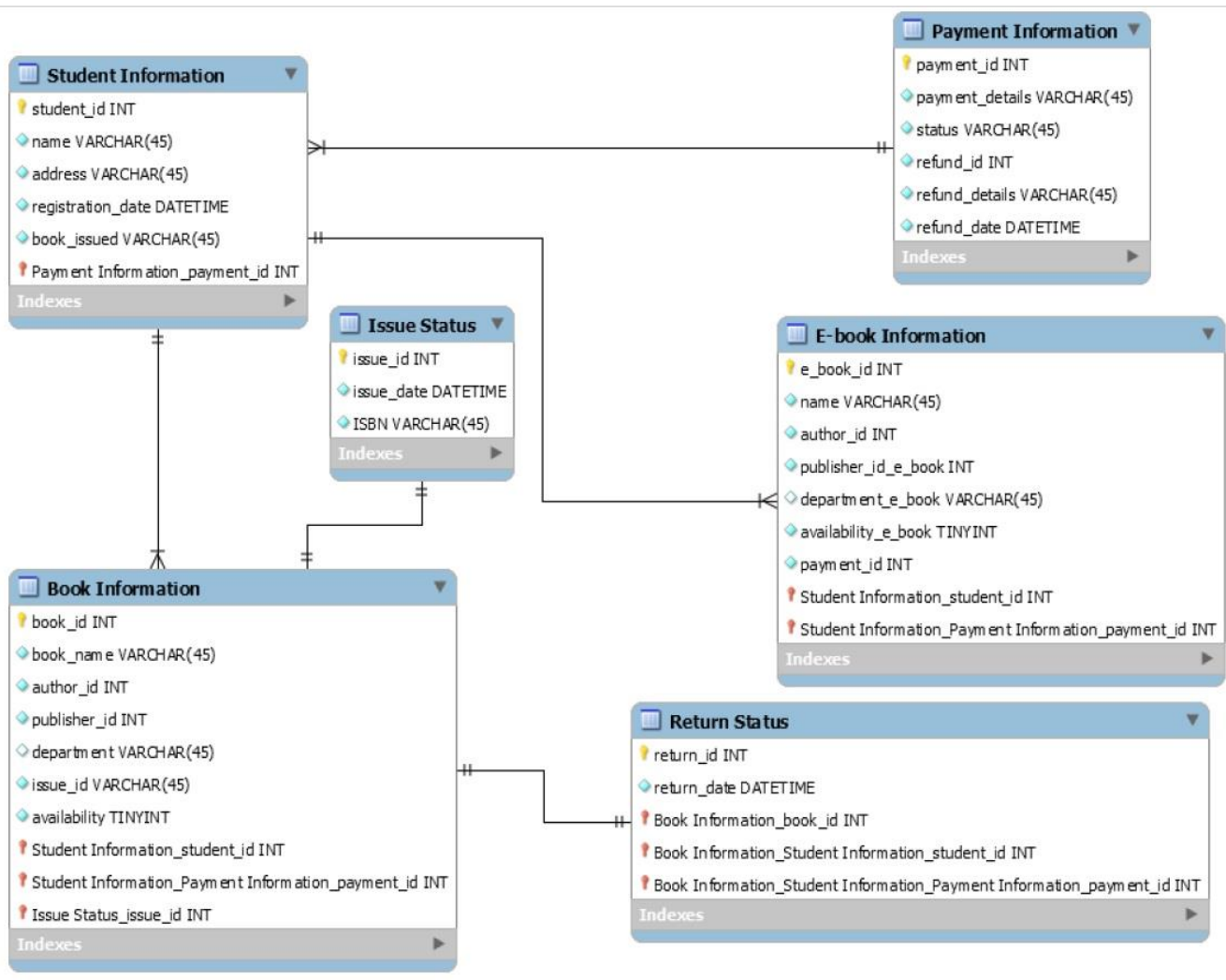
This system will help us to keep a track of all the books available in the library, books which have been rented, knowing their status and finding if an e-book version is available to purchase.

A student / librarian will open the system to check if the particular book is available in the library or if its e-book version is available. The system will be updated if the book gets issued and it will store that student's data. It will also keep information of where the book is available in the library and update the section and department. If any ebook has to be bought it will load the payment options.

## Core Functions:

- Storing the information of the books and their respective authors.
- Getting the status of the books. For example: when the book was issued or when it has to be returned.
- Storing the student information.
- Tracking where the book is available in the Library or if any E-book version is available.
- Keeping record of the purchased books and the payment made.
- Entering details related to a particular book.
- Providing membership to the members and update as and when required.
- Providing request for the return of the books.
- Updating the bills for payments.
- Checking and recording for fines.
- Secure access of confidential data (user's details).
- Maintaining Borrower's history.

## ER Diagram:



## Primary Database Table:

<div> <div>1 Result</div> <div>2 Messages</div> <div>3 Table Data</div> <div>4 Objects</div> <div>5 History</div> </div>									
<div> <div>Show All</div> <div>or Limit</div> <div>0</div> <div>50</div> <div>Refresh</div> </div>									
	first_name	middle_name	last_name	id	gender	department	degree	registration_date	book_issued
<input type="checkbox"/>	Evanse	Raj	Mehta	29542	Male	MIS	Grad	2018-01-23	1
<input type="checkbox"/>	Peter	John	Desriveire	24022	Male	MIS	Grad	2017-07-20	0
<input type="checkbox"/>	Shreyas	Subash	Sawant	23243	Male	CEM	Undergrad	2017-08-12	0
<input type="checkbox"/>	Shreyas	(NULL)	Menon	28332	Male	MIS	Grad	2017-07-16	1
<input type="checkbox"/>	Siddhesh	(NULL)	Powar	26939	Male	MIS	Grad	2018-02-19	1
<input type="checkbox"/>	Stacy	Pete	Kimberly	24965	Female	BIA	phD	2018-01-19	1
<input type="checkbox"/>	Rey	David	Bautista	29694	Female	CS	Undergrad	2017-11-20	1
<input type="checkbox"/>	Angelina	Joseph	Raul	20403	Female	MIS	Grad	2017-11-25	0
<input type="checkbox"/>	Paul	George	Smith	20530	Male	CEM	Grad	2017-10-06	1
<input type="checkbox"/>	Maria	James	Rodriguez	29400	Female	BIA	Grad	2017-09-03	0
<input type="checkbox"/>	Mary	Dwayne	Smith	20400	Female	ELC	Undergrad	2018-01-05	1
<input type="checkbox"/>	Selena	Martin	Hernandez	25044	Female	CS	phD	2018-02-04	0
<input type="checkbox"/>	Janice	(NULL)	Lobo	26045	Female	BIA	Grad	2018-02-26	1
<input type="checkbox"/>	Joe	Keiron	Stark	20750	Male	MIS	Grad	2017-09-28	0
<input type="checkbox"/>	Elvin	Kevin	Butler	20405	Male	CS	Undergrad	2017-09-27	1
<input type="checkbox"/>	Ankush	(NULL)	Bhande	20503	Male	CEM	Grad	2018-08-05	1
<input type="checkbox"/>	Marcus	Chris	Sammy	25545	Male	MIS	Grad	2017-08-27	1

```

create table `student_info` (
  `first_name` varchar (765),
  `middle_name` varchar (765),
  `last_name` varchar (765),
  `id` double,
  `gender` varchar (765),
  `department` varchar (765),
  `degree` varchar (765),
  `registration_date` date,
  `book_issued` tinyint (1)
);

insert into `student_info` (`first_name`, `middle_name`, `last_name`, `id`, `gender`, `department`, `degree`, `registration_date`, `book_issued`) values('Evanse','Raj','Mehta','29542','Male','MIS','Grad',
insert into `student_info` (`first_name`, `middle_name`, `last_name`, `id`, `gender`, `department`, `degree`, `registration_date`, `book_issued`) values('Peter','John','Desriveire','24022','Male','MIS','',
insert into `student_info` (`first_name`, `middle_name`, `last_name`, `id`, `gender`, `department`, `degree`, `registration_date`, `book_issued`) values('Shreyas','Subash','Sawant','23243','Male','CEM','',
insert into `student_info` (`first_name`, `middle_name`, `last_name`, `id`, `gender`, `department`, `degree`, `registration_date`, `book_issued`) values('Shreyas',NULL,'Menon','28332','Male','MIS','Grad',
insert into `student_info` (`first_name`, `middle_name`, `last_name`, `id`, `gender`, `department`, `degree`, `registration_date`, `book_issued`) values('Siddhesh',NULL,'Powar','26939','Male','MIS','Grad',
insert into `student_info` (`first_name`, `middle_name`, `last_name`, `id`, `gender`, `department`, `degree`, `registration_date`, `book_issued`) values('Stacy','Pete','Kimberly','24965','Female','BIA','',
insert into `student_info` (`first_name`, `middle_name`, `last_name`, `id`, `gender`, `department`, `degree`, `registration_date`, `book_issued`) values('Rey','David','Bautista','29694','Female','CS','Un',
insert into `student_info` (`first_name`, `middle_name`, `last_name`, `id`, `gender`, `department`, `degree`, `registration_date`, `book_issued`) values('Angelina','Joseph','Raul','20403','Female','MIS',
insert into `student_info` (`first_name`, `middle_name`, `last_name`, `id`, `gender`, `department`, `degree`, `registration_date`, `book_issued`) values('Paul','George','Smith','20530','Male','CEM','Grad',
insert into `student_info` (`first_name`, `middle_name`, `last_name`, `id`, `gender`, `department`, `degree`, `registration_date`, `book_issued`) values('Maria ','James','Rodriguez','29400','Female','BIA',
insert into `student_info` (`first_name`, `middle_name`, `last_name`, `id`, `gender`, `department`, `degree`, `registration_date`, `book_issued`) values('Mary','Dwayne','Smith','20400','Female','ELC','Un',
insert into `student_info` (`first_name`, `middle_name`, `last_name`, `id`, `gender`, `department`, `degree`, `registration_date`, `book_issued`) values('Selena','Martin','Hernandez','25044','Female','CS',
insert into `student_info` (`first_name`, `middle_name`, `last_name`, `id`, `gender`, `department`, `degree`, `registration_date`, `book_issued`) values('Janice',NULL,'Lobo','26045','Female','BIA','Grad',
insert into `student_info` (`first_name`, `middle_name`, `last_name`, `id`, `gender`, `department`, `degree`, `registration_date`, `book_issued`) values('Joe','Keiron','Stark','20750','Male','MIS','Grad',
insert into `student_info` (`first_name`, `middle_name`, `last_name`, `id`, `gender`, `department`, `degree`, `registration_date`, `book_issued`) values('Elvin','Kevin','Butler','20405','Male','CS','Unde',
insert into `student_info` (`first_name`, `middle_name`, `last_name`, `id`, `gender`, `department`, `degree`, `registration_date`, `book_issued`) values('Ankush',NULL,'Bhande','20503','Male','CEM','Grad',
insert into `student_info` (`first_name`, `middle_name`, `last_name`, `id`, `gender`, `department`, `degree`, `registration_date`, `book_issued`) values('Marcus','Chris','Sammy','25545','Male','MIS','Gra

```