College Library Management System Entity Relationship Diagram Tables

These tables below provide the complete database tables details such as **Field Name**, **Descriptions**, **data types**, **character lengths**.

Table Name: Student

Field	Description	Type	Length
stud_ID (PK)	Student ID	Int	11
fname	Student First Name	Varchar	255
lname	Student Last Name	Varchar	255
gender	Student Gender	Int	11
age	Student Age	Int	11
contact_add	Contact Address	Int	11
stud_email	Student Email	Varchar	255
stud_pass	Student Password	Varchar	255

Table Name: Users

Field	Description	Type	Length
user_ID (PK)	User ID	Int	11
fname	Instructor First Name	Varchar	255
lname	Instructor Last Name	Varchar	255
gender	Instructor Gender	Int	11
age	Instructor Age	Int	11
contact_add	Contact Address	Int	11
user_email	User Email	Varchar	255
user_pass	User Password	Varchar	255

Table Name: Book

Field	Description	Type	Length
book_ID (PK)	Book ID	Int	11
bk_title	Book Title	Varchar	30
bk_name	Book Name	Varchar	30
publisher	Publisher	Varchar	30
author	Author	Varchar	30
bk_num	Book Number	Int	11
pub_date	Date Published	Date	

Table Name: Borrowing

Field	Description	Type	Length
borrowing_ID (PK)	Borrowing ID	Int	11
book_ID (FK)	Book ID	Int	11
stud_ID (FK)	Student ID	Int	11
date_borrowed	Borrowing Date	Date	
date_return	Returning Date	Date	

Table Name: Transaction

Field	Description	Type	Length
trans_ID (PK)	Transaction ID	Int	11
trans_name	Transaction Name	Varchar	30
borrowing_ID (FK)	Subject ID	Int	11
stud_ID (FK)	Student ID	Int	11
trans_date	Date of Transaction	Date	

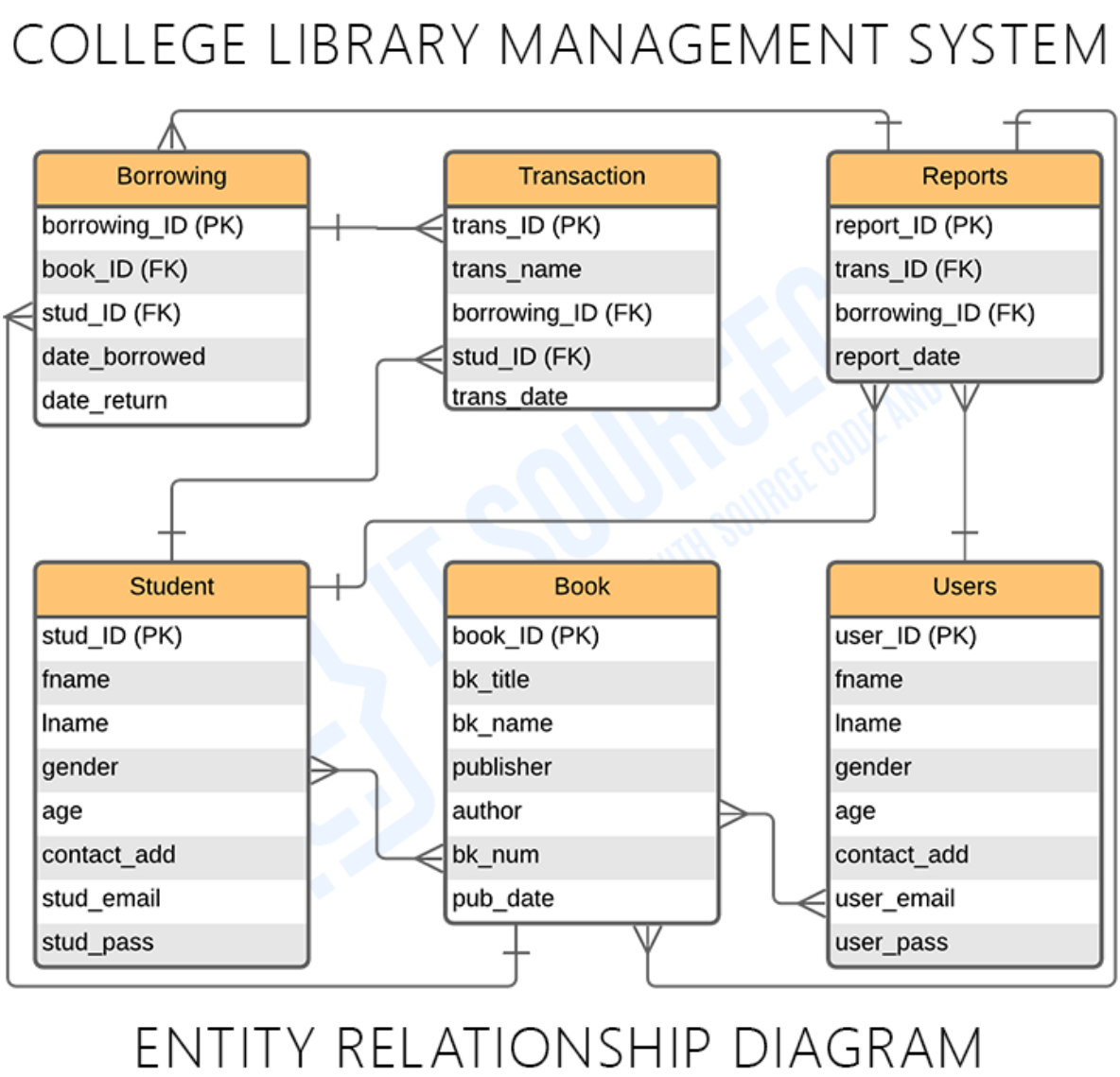
Table Name: Reports

Field	Description	Type	Length
report_ID (PK)	Report ID	Int	11
trans_ID (FK)	Transaction ID	Int	11
borrowing_ID (FK)	Borrowing ID	Int	11
report_date	Report Date	Date	

Entity Relationship Diagram for College Library Management System

ER Diagram of College Management System shows the system entity relationships in each entity and their supposed functions in each relationship.

Sample ER Diagram for College Library Management System Project



ER Diagram for College Library Management System

Based on the image above, the **Entity Relationship diagram for *this System*** is the entity of the **college library management system database**, which is presented by **tables**.

The tables are made to meet the required specification of the system and provide much more specific details of each entity within the system.