## **School Library System - Database Schema**

This document contains the database schema design for a School Library System. It defines the entities (tables), their attributes (columns), primary keys, unique constraints, and relationships (foreign keys).

```
Table Department {
dept id int [pk]
name varchar [unique]
}
Table Student {
student id int [pk]
name varchar
email varchar [unique, not null]
department_id int [ref: > Department.dept_id]
}
Table Author {
author_id int [pk]
name varchar
}
Table Category {
category id int [pk]
name varchar [unique]
}
Table Book {
book_id int [pk]
title varchar
isbn varchar [unique]
author id int [ref: > Author.author id]
category_id int [ref: > Category.category_id]
}
Table BookCopy {
copy id int [pk]
book id int [ref: > Book.book id]
status varchar
}
Table Librarian {
librarian_id int [pk]
```

```
name varchar
email varchar [unique]
}
Table Borrowing {
borrow_id int [pk]
student_id int [ref: > Student.student_id]
book_copy_id int [ref: > BookCopy.copy_id]
librarian_id int [ref: > Librarian.librarian_id]
borrow_date date
return_date date
}
Table Fine {
fine_id int [pk]
borrow_id int [ref: > Borrowing.borrow_id]
amount decimal
status varchar
}
```

