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| **NAME** | **TYPE** | **CONSTRAINCTS** | **ENTITIES** | **DESCRIPTION** |
| *idBook* | *INT* | *NOT NULL, UNIQUE,*  *PRIMARY KEY* | *Book,*  *AUTO INCREMENT* |  |
| Title | VARCHAR | NOT NULL | Book |  |
| Language | VARCHAR | NOT NULL | Book |  |
| Number\_Of\_Pages | INT | NOT NULL | Book |  |
| Year\_Of\_Production | DATE | NOT NULL | Book |  |
| Subject | VARCHAR | NOT NULL | Book |  |
| rack\_number | INT | NOT NULL | Book |  |
| idAuthor | INT | *NOT NULL, UNIQUE,*  *PRIMARY KEY* | *Author,*  *AUTO INCREMENT* |  |
| Author\_Name | VARCHAR | NOT NULL | Author |  |
| idPublisher | INT | *NOT NULL, UNIQUE,*  *PRIMARY KEY* | *Publisher,*  *AUTO INCREMENT* |  |
| Publisher\_Name | VARCHAR | NOT NULL | Publisher |  |
| idStudent | INT | *NOT NULL, UNIQUE,*  *PRIMARY KEY* | *Users,*  *AUTO INCREMENT* |  |
| profil | VARCHAR | NOT NULL  CHECK IN (‘Administrator’,'Library Agent', 'Student') |  |  |
| first\_name | VARCHAR | NOT NULL | Users |  |
| last\_name | VARCHAR | NOT NULL | Users |  |
| email | VARCHAR | NOT NULL, UNIQUE | Users |  |
| postal\_adress | VARCHAR | NOT NULL | Users |  |
| phone\_number | VARCHAR | NOT NULL | Users |  |
| is\_registered | BOOLEAN | NOT NULL | Users |  |
| username | VARCHAR | NOT NULL, UNIQUE | Users |  |
| password | VARCHAR | NOT NULL | Users |  |
| idBookInLibrary | INT | *NOT NULL, UNIQUE,*  *PRIMARY KEY* | *BookInLibrary,*  *AUTO INCREMENT* |  |
| price | INT | NOT NULL | BookInLibrary |  |
| date\_of\_purchase | DATE | NOT NULL | BookInLibrary |  |
| idBook | INT | NOT NULL  FOREIGN KEY | BookInLibrary |  |
| idCard | INT | *NOT NULL, UNIQUE,*  *PRIMARY KEY* | *Card,*  *AUTO INCREMENT* |  |
| RessourceType | VARCHAR | NOT NULL  CHECK IN (‘Book’,’Computer’,’Meeting\_Room’) | Card |  |
| Activation\_Date | DATE | NOT NULL | Card |  |
| is\_active | BOOLEAN | NOT NULL | Card |  |
| idUser | INT | NOT NULL  FOREIGN KEY | Card |  |
| idBook | INT | *NOT NULL, UNIQUE,*  *PRIMARY KEY,*  *FOREIGN KEY* | *Write\_* |  |
| idAuthor | INT | *NOT NULL, UNIQUE,*  *PRIMARY KEY,*  *FOREIGN KEY* | *Write\_* |  |
| idBook | INT | *NOT NULL, UNIQUE,*  *PRIMARY KEY,*  *FOREIGN KEY* | *Publish* |  |
| idPublisher | INT | *NOT NULL, UNIQUE,*  *PRIMARY KEY,*  *FOREIGN KEY* | *Publish* |  |
| idBorrow | INT | *NOT NULL, UNIQUE,*  *PRIMARY KEY,* | *Borrow* |  |
| idBookInLibrary | INT | NOT NULL,  FOREIGN KEY | Borrow |  |
| idCard | INT | NOT NULL,  FOREIGN KEY | Borrow |  |
| DateBorrowStart | DATE | NOT NULL | Borrow |  |
| DateBorrowEnd | DATE | NOT NULL | Borrow |  |
| *idUserRoom* | *INT* | *NOT NULL, UNIQUE,*  *PRIMARY KEY* | *UserRoom* |  |
| DateBorrowStart | DATE | NOT NULL | UseRoom |  |
| DateBorrowEnd | DATE | NOT NULL | UseRoom |  |
| idCard | INT | NOT NULL,  FOREIGN KEY | UseRoom |  |
| idMeetingRoom | INT | NOT NULL | UseRoom |  |
| *idUserComputer* | *INT* | *NOT NULL, UNIQUE,*  *PRIMARY KEY* | *UseComputer* |  |
| DateBorrowStart | DATE | NOT NULL | UseComputer |  |
| DateBorrowEnd | DATE | NOT NULL | UseComputer |  |
| idCard | INT | NOT NULL,  FOREIGN KEY | UseComputer |  |
| idComputer | INT | NOT NULL | UseComputer |  |
| *idComputer* | *INT* | *NOT NULL, UNIQUE,*  *PRIMARY KEY* | *MeetingRoom* |  |
| availability | BOOLEAN | NOT NULL | MeetingRoom |  |
| *idComputer* | *INT* | *NOT NULL, UNIQUE,*  *PRIMARY KEY* | *Computer* |  |
| availability | BOOLEAN | NOT NULL | Computer |  |