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| **LIBCARDS** | | | | | |
| **No** | **Column Name** | **Data Type** | **Size** | **Check** | **Description** |
| 1 | **🗝**LIBCARD\_ID | Int |  | Not Null | The ID of library card |
| 2 | NAME | NVarchar | 30 | Not Null | The reader’s name |
| 3 | AGES | Int |  | Not Null | The ages of the reader |
| 4 | ADDRESS | NVarchar | 100 | Not Null | The address of the reader |
| 5 | CLASS | NVarchar | 15 | Not Null | The name of the student's class |

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| **BOOKS** | | | | | |
| **No** | **Column Name** | **Data Type** | **Size** | **Check** | **Description** |
| 1 | **🗝**BOOK\_ID | Int |  | Not Null | The ID of the book |
| 2 | TITLE | NVarchar | 30 | Not Null | The title of the book |
| 3 | STATE | Int |  | Not Null | The state of the book, available or not |
| 4 | POSITION | Varchar | 10 | Not Null | The position of the book in library |
| 5 | PATH | NVarchar | 100 | Null | The path to file contains the image describe the book |

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| **SUBJECTS** | | | | | |
| **No** | **Column Name** | **Data Type** | **Size** | **Check** | **Description** |
| 1 | **🗝**SUBJECT\_ID | Int |  | Not Null | The ID of the subject |
| 2 | NAME | NVarchar | 30 | Not Null | The name of the subject |

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| **AUTHOR** | | | | | |
| **No** | **Column Name** | **Data Type** | **Size** | **Check** | **Description** |
| 1 | **🗝**AUTHOR\_ID | Int |  | Not Null | The ID of the author |
| 2 | NAME | NVarchar | 30 | Not Null | The author’s name |

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| **BORROWCARDS** | | | | | |
| **No** | **Column Name** | **Data Type** | **Size** | **Check** | **Description** |
| 1 | **🗝**BORROWCARD\_ID | Int |  | Not  Null | The ID of borrow-card |
| 2 | *BOOK\_ID* | Int |  | Not  Null | The ID of the book |
| 3 | *LIBCARD\_ID* | Int |  | Not  Null | The ID of library card |
| 4 | BORROW\_DATE | Datetime |  | Not  Null | The date borrowing book |
| 5 | DUE\_DATE | Datetime |  | Not  Null | The due date of the book return |
| 6 | RETURN\_DATE | Datetime |  | Null | The date returning book |

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| **SUBJECTS\_BOOKS** | | | | | |
| **No** | **Column Name** | **Data Type** | **Size** | **Check** | **Description** |
| 1 | **🗝**SUBJECT\_ID | Int |  | Not Null | The ID of the subject |
| 2 | **🗝**BOOK\_ID | Int |  | Not Null | The ID of the book |

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| **AUTHORS\_BOOKS** | | | | | |
| **No** | **Column Name** | **Data Type** | **Size** | **Check** | **Description** |
| 1 | **🗝**AUTHOR\_ID | Int |  | Not Null | The ID of the author |
| 2 | **🗝**BOOK\_ID | Int |  | Not Null | The ID of the book |

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| **ACCOUNT** | | | | | |
| **No** | **Column Name** | **Data Type** | **Size** | **Check** | **Description** |
| 1 | **🗝**USERNAME | Varchar | 20 | Not Null | The ID of the subject |
| 2 | PASSWORD | Varchar | 30 | Not Null | The name of the subject |

Notes:

**🗝**PRIMARY\_KEY: primary key

*REFERENCE\_KEY*: reference key