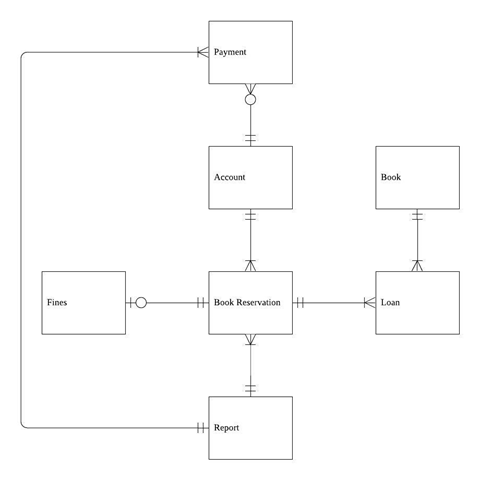
**Attributes and Keys**



Account (Account No, First Name, Last Name, Email, Password, Identity, Date Joined, Fine Amount Due)

Book Reservation (Reserve No, Reserve Date, Book ID\*)

Loan (Reserve No\*, Book ID\*, Collection Date, Return Date)

Book (Book ID, Book Title, Language, Author, Publisher, ISBN, ISSN, Publish Year)

Fines (Fine No, Day Count, Fine Amount, Account No\*)

Payment (Payment No, Payment Amount, Account No\*)

Report (Report No, Date Created)

**Codes**

ISBN 978-3-16

**Table Design**

**Account Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Remark** | **Format** |
| Account No. | Varchar (4) | Primary Key | - |
| First Name | Varchar (50) | - | - |
| Last Name | Varchar (50) | - | - |
| Email | Varchar (50) | - | - |
| Password | Varchar (32) | - | - |
| Identity | Varchar (14) | - | - |
| Date Joined | Date | - | 12-NOV-2015 |
| Fine Amount Due | Number (6,2) | - | RM 9,999.99 |

**Book Reservation Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Remark** | **Format** |
| Reserve No. | Varchar (4) | Primary Key | - |
| Reserve Date | Date | - | 12-NOV-2015 |
| Book ID | Varchar (4) | Foreign Key | Reference Account Table |

**Loan Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Remark** | **Format or Reference** |
| Reserve No. | Varchar (4) | Primary Key & Foreign Key | Reference Book Reservation Table |
| Book ID | Varchar (4) | Primary Key & Foreign Key | Reference Book Table |
| Collection Date | Date | - | 12-NOV-2015 |
| Return Date | Date | - | 12-NOV-2015 |

**Book Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Remark** | **Format or Reference** |
| Book ID | Varchar (4) | Primary Key | - |
| Book Title | Varchar (50) | - | - |
| Language | Varchar (20) | - | - |
| Author | Varchar (50) | - | - |
| Publisher | Varchar (50) | - | - |
| ISBN | Varchar (17) | - | - |
| ISSN | Varchar (9) | - | - |
| Publish Year | Number (4) | - | - |

**Fines Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Remark** | **Format or Reference** |
| Fine No. | Varchar (4) | Primary Key | - |
| Day Count | Number (6) | - | - |
| Fine Amount | Number (8,2) | - | RM 999,999.99 |
| Account No. | Varchar (4) | Foreign Key | - |

**Payment Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Remark** | **Format or Reference** |
| Payment No. | Varchar (4) | Primary Key | - |
| Payment Amount | Number (8,2) | - | RM 999,999.99 |
| Account No. | Varchar (4) | Foreign Key | - |

**Report Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Remark** | **Format or Reference** |
| Report No. | Varchar (4) | Primary Key | - |
| Date Created | Date | - | 12-NOV-2015 |

**Data Records**