**The Entity-Relationship Model:**

Book

Author

Loan

Visitor

**Database Design:**

Entity: [Author]

Attributes:

[Author\_ID] (PK)

[Name]

[Birthplace]

[Birthdate]

[Deathdate]

Entity: [Book]

Attributes:

[Book\_ ID] (PK)

[Title]

[Author\_ID] (FK, connected to table [Athor])

[Publishing Year]

[Publishing Place]

Entity: [Loan]

Attributes:

[Loan\_ID]

[Returning Date]

[Loaning Date]

[Visitor\_ID] (FK, connected to table [Visitor])

[Book\_ID] (FK, connected to table [Book])

Entity: [Visitor]

[Visitor\_ID] (PK)

[Name]

[Date]

[Place]

**Text description:**

One author can write multiple books, but one book can only have one author. The Loans are connected to the Book in a one-to-one relationship. The entity loan links visitors and books while there is no direct relationship between visitors and books. Among other attributes, each entity has an own ID as a primary key. The entity [Book] is connected by the foreign key [Author\_ID] to the entity [Author] and the entity [Loan] is connected to the entities [Visitor] and [Book] by foreign keys [Visitor\_ID] and [Book\_ID].