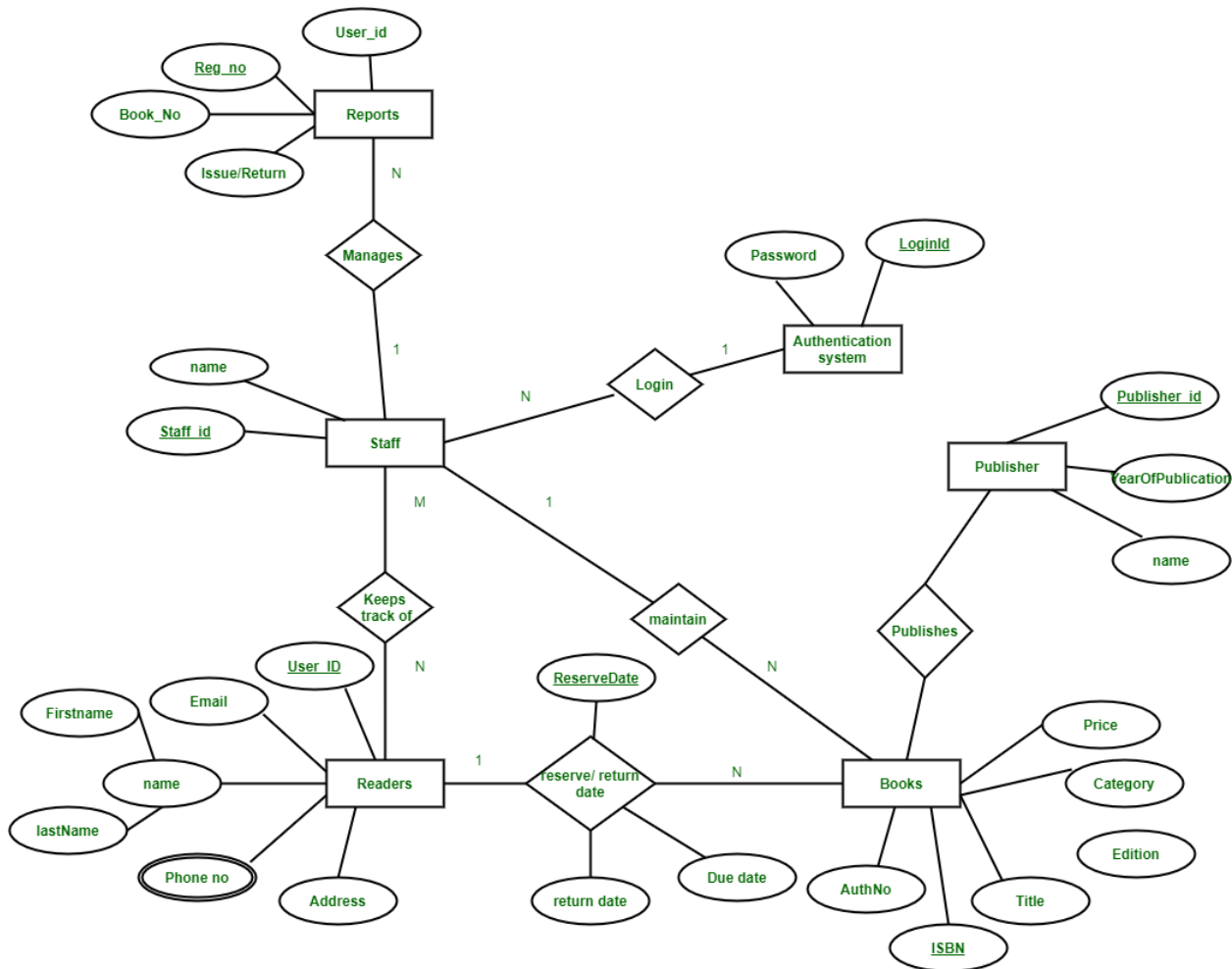


Name: Leah Sigana

Assignment:Library ERD



Entities:

- Book:** Shown as a rectangle with the word "Book" inscribed within. Its properties include Publication_Year, Title, and Book_ID (unique identifier).
- Author:** Symbolized by a rectangle with the word "Author" inscribed within. Its properties include Name and Author_ID (unique identification).
- Library Member:** represented as a rectangle with the word "Library Member" written within. It has properties like Name and Member_ID (unique identification).
- Borrowing:** written inside a rectangle to symbolize borrowing. Its features are the unique identity Borrowing_ID, the due date, and the optional return date.

Relationships:

- v. **Book - Author (Many-to-Many):** A book can have one or more authors. Likewise, an author can write one or more books. This relationship is represented by a diamond shape labeled "Writes" connecting the Book and Author entities. Each side of the diamond has a cardinality of "Many."
- vi. **Borrowing - Book (One-to-Many):** A borrowing record is associated with one specific book. A book can be borrowed by multiple members over time. This relationship is represented by a line connecting Borrowing to Book with a crow's foot on the Book side indicating "Many."
- vii. **Borrowing - Library Member (One-to-Many):** A borrowing record is associated with one library member. A member can borrow multiple books over time. This relationship is represented by a line connecting Borrowing to Library Member with a crow's foot on the Library Member side indicating "Many."