# Reader Log

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Phase: CS 340: Project Step 1 Draft (Group, on Ed Discussions)

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Submittal: Ed Discussion Post + URL to Canvas Group

## Overview

## Database Outline

### Readers (Object Entity)

* + readerID: INT, auto-inc, not NULL, PK
  + name: VARCHAR(), not NULL

### Books (Object Entity)

* + bookID: INT, auto-inc, not NULL, PK
  + title: VARCHAR(), not NULL
  + author: VARCHAR(), not NULL
  + year: DATE()

### ReadingClubs (Object Entity)

* + clubID: INT, auto-inc, not NULL, PK
  + clubName: VARCHAR(), not NULL
  + coordinator: FK(Readers.readerID)
  + maxRosterSize: INT

### ReadingLog (Transaction Entity)

* + readerID: FK(Readers.readerID), not NULL
  + bookID: FK(Books.bookID), not NULL
  + status: VARCHAR()
  + dateStarted: DATE()
  + dateCompleted: DATE()

### Recommendations (Transaction Entity)

* + recommendedBy: FK(Readers.readerID), not NULL
  + recommendedTo: FK(Readers.readerID), not NULL
  + bookID: FK(BookID), not NULL
  + recommendationAccepted: BOOL

### ClubRosters (Composite Entity)

* + clubID: FK(ReadingClubs.clubID), not NULL
  + readerID: FK(Readers.readerID), not NULL

### ReadQueue (Composite Entity)

* + readerID: FK(Readers.readerID), not NULL
  + bookID: FK(Books.bookID) , not NULL
  + priority: INT, default = 1

## Entity-Relationship Diagram (ERD)