Basic Databases – Week 02

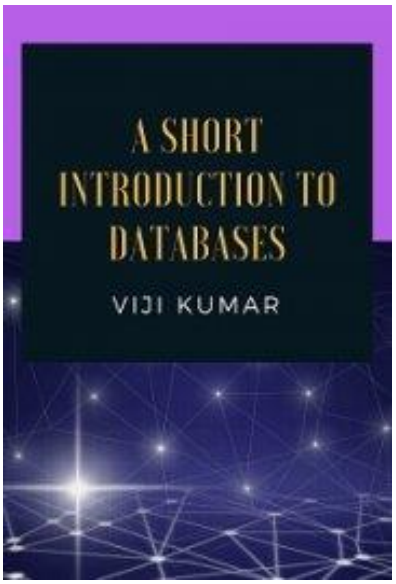
PROBLEM

Please create a database that allows you to store information about books you have read, you are reading, or you are going to read.

- Analyze different ways of book specification and, based on the gain information, prepare conceptual data model using UML language (class diagram)

Examples of data about books:

1. **Incomplete specification**



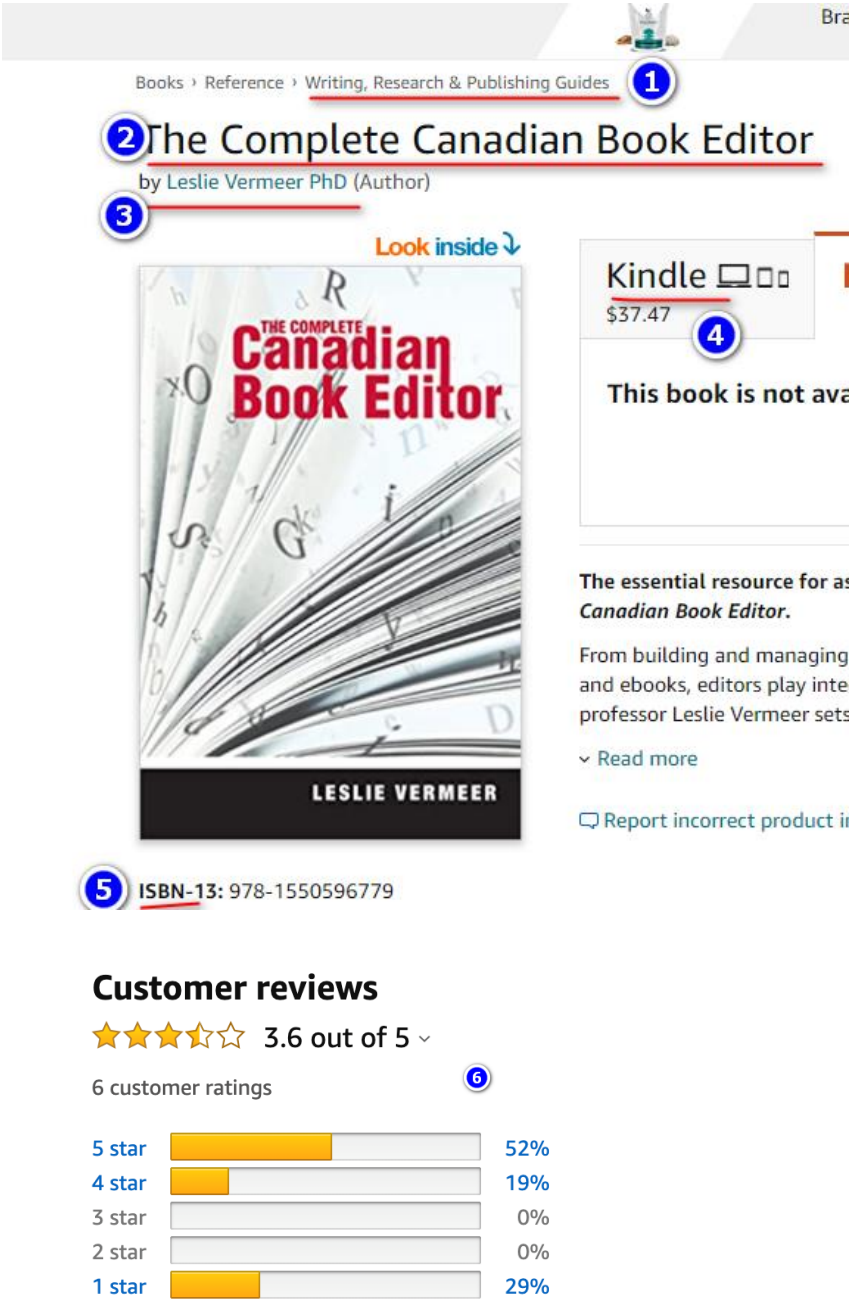
- Author(s): Viji Kumar
- Category: Computer & Internet
- ISBN (International Standard Book Number):
- Rating:
  - 5 star: 10 times
  - 4 star: 20 times
  - 1 star: 2 times
- Format: PDF, ePub, Kindle, TXT
- Publisher: Brush Education
- Published: May 2016
- Pages: 56

2. **Bibliographic specification:**

Vermeer, Leslie (2016-08-23). **The Complete Canadian Book Editor**. Brush Education. ISBN 9781550596779.

(AMAZON BOOK LINK)

1: Category
2: Book name
3: Author
4: Format
5: ISBN
6: Rating



Create a conceptual data model taking into account the rules of the domain of mention above description

1. Identify and define classes of objects, including basic properties (attributes, candidate keys, constraints), e.g., Book(ISBN, Title, …) **(2 points)**
2. Conceptual data model **(2 points)** and write comments about the relationship between the tables **(1 point)**.

Place the results of each subtask in the below parts of the report.

SOLUTION

1. **Class definitions**

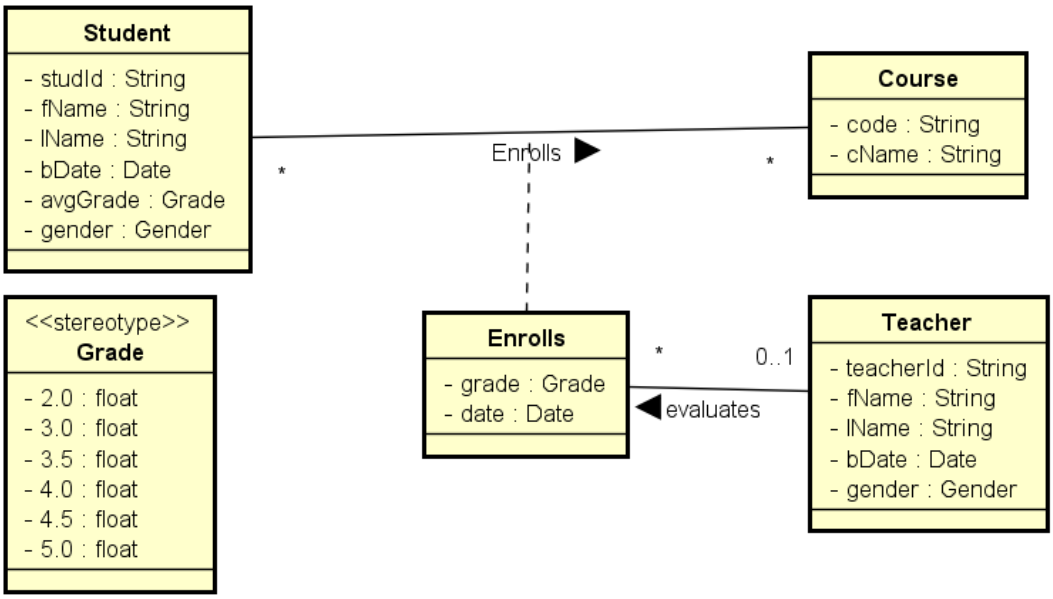
2. **Conceptual data model and Conclusions**

EXAMPLE

1. Class definitions

- **Book** – book name, ...
- …

2. Conceptual data model and Conclusions



References:

1. Diagrams.net: https://app.diagrams.net/
2. Lucidchart: https://www.lucidchart.com/

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