



To do: Post replies: 3

**Due:** Wednesday, 25 September 2024, 11:55 PM

**This assignment will assess your skills and knowledge about:**

1. Explaining issues related to data redundancy in databases.
2. Identifying functional dependencies.
3. Analyzing a relational schema to minimize redundancy.

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### Assignment Information

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A bookstore is interested in storing information about authors and their books in a database. For this purpose, the following relations are created:

- Authors (AuthorID, AuthorName) [AuthorID is the primary key]
- Books (BookID, Title, Genre, AuthorID) [BookID is the primary key, AuthorID is a foreign key referencing the Authors table]

**Given the above scenario, engage yourself in a discussion by answering the questions below.**

1. Discuss why this schema might encounter difficulties when dealing with books that have multiple authors. Your discussion should focus on primary key and functional dependency concepts.
2. Analyse the functional dependencies present in the schema and explain how they impact the representation of books authored by multiple individuals.
3. Also, propose potential modifications to the schema to address these limitations.

**End your discussion post with one question related to the concepts learned in this unit from which your colleagues can formulate a response or generate further discussion.**

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### Submission Instructions

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- Your Discussion should be a minimum of **250** words in length and not more than **750** words.
- You may use the course readings or any relevant source to respond to the questions and your peer replies.
- Remember to locate, use, cite, and list references in all your discussion posts to validate statements of fact or corroborate personal opinions/points of view.
- Refer to the [UoPeople APA Tutorials in the LRC](#) for help with APA citations. You can contact the librarian at [library@uopeople.edu](mailto:library@uopeople.edu) if you need help. You can also ask the expert in the [Learning Resource Center Course: Learning Resource Center](#).

**NOTE:** Remember to post as early as possible.

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### Discussion Responses

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Please respond to any two classmates by providing comments or questions about their main post. Feedback should be appropriate, meaningful, and helpful. Overall, your comments should contribute positively to the conversation by broadening or clarifying it. ?  
Feedback should be in complete sentences. Read '

[Peer feedback for students](#) to know more about how to give feedback.



## Academic Integrity:

If at any time you suspect that a post in this assignment violates [UoPeople's rules regarding plagiarism](#) and/or any aspect of [UoPeople's Academic Code of Conduct](#), please notify your instructor immediately.

Your instructor will grade you based on the [Discussion Forum Rubric Unit 3](#).

**NOTE:** Your instructor will be assessing your posts/responses for this discussion.

This is a question and answer forum. To see other replies, you must first post your reply.

Separate groups: Group 0007

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