

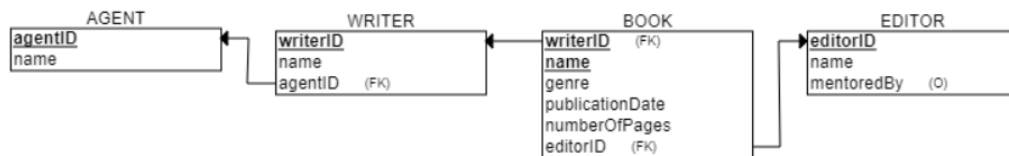
homework3

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Task: Signum Libri (SL) is a publishing company. Create the ER diagram and map the ERD for the SL Operations Database into a relational model based on the following requirements. The SL Operations Database will keep track of the following:

- For each book SL publishes: a book name, genre, date of publication, and number of pages.
- For each writer: a unique writer identifier as well as the writer's name
- For each editor: a unique editor identifier as well as the editor's name
- Each SL book is written by one writer, and each writer can write many books. SL will not keep track of writers who did not write a book for SL. All books written by the same writer have a different book name. However, two writers can write two different books with the same book name.
- Each writer is represented by one agent. Each agent represents at least one writer, but can represent many.
- Each book has one editor. Each editor edits at least one book, but can edit many books.
- Each editor can mentor one or more other editors, but does not have to mentor any. Each editor can have at most one mentor editor, but does not have to have any.



- Made *agentID* as a *foreign key* in *WRITER* table as it will keep the same number of row, i.e. we don't need additional row, whereas putting *writerID* in *AGENT* as *foreign key* will induce extra row creation due to *1:M relationship*.
- *editorID* is *foreign key* in *BOOK* as same reason in above.
- In *BOOK* table, *name* is partial key, and together with foreign key *writerID* from *WRITER* table, two will be *primary key*.
- *EDITOR* table contains *mentoredBy* column as optional attribute since editor can have up to one mentor or not have any, thus well defined as optional attribute.