

Exercise

1. Create database named LIBRARY (as shown at schema on the next page). Give names to all the constraints (except NULL constraints). The properties of the tables are defined as follows:

❑ MEMEBERS table

- CardNo - 5 characters, primary key,
- Surname - up to 15 characters,
- Name – as above,
- Address –up to 150 characters,
- Name, Surname, Birthday_date – not null,
- Gender - 1 char: M or F letter,
- Phone_No – up to 15 characters.

❑ Employees table

- emp_id - primery key with identity set (seed = 1, incerement=1) ,
- Surname, Name and Birthday_date are not null,
- birthday date must be earlier than date of employment (Emp_Date),

❑ Publishers table

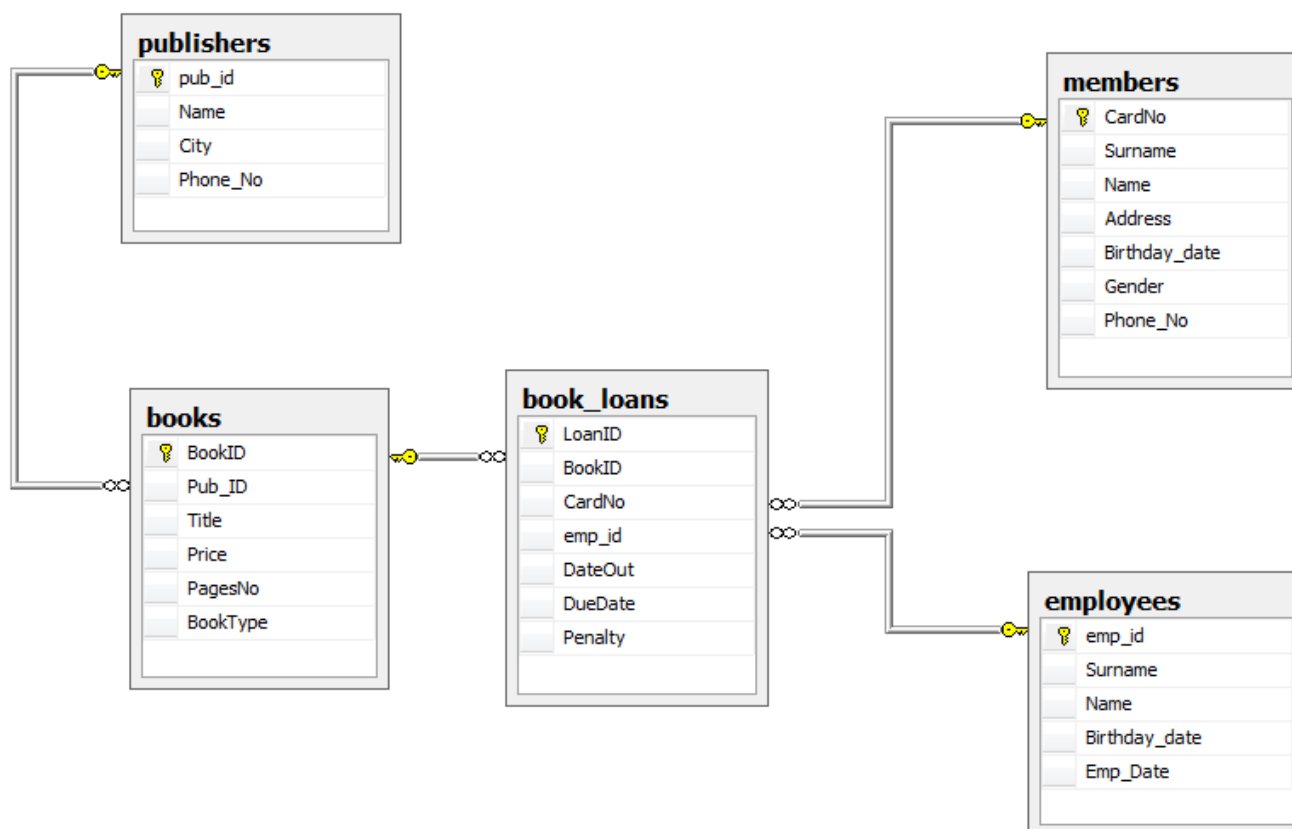
- pub_id is a primary key with identity set (seed=1, incerement=1),
- Name, City, - not null, up to 50 characters,
- Phone_No - up to 15 charakters,

❑ Books table

- BookID - primary key, 5 characters,
- Pub_ID - foreign key related to Publishers,
- Type - charaters, must contain one of the following values: novel, historical, for kids, poems, crime story, science fiction, science
- Price is a currency field (money), not null,
- Title - up to 40 characters, not null,

❑ BOOK_LOANS table

- LoanID - integer with identity set (seed = 1, increment = 1), primary key,
- CardNo, BookID and emp_id are foreign keys related to Members, Books and Employees,
- DateOut must be earlier than DueDate,
- Penalty can't contain negative values, default is set to 0 (zero),



1. Create database diagram and check its correctness (compare with a diagram above).
2. Add data from the script (library_eng_data.sql). In case of errors, check the defined structure again..
3. There is Gender field in Employees table omitted (it should contain 'F' or 'M' value). Correct this mistake.
4. Change Book_loans table - add another constraint, that enforces uniqueness of a pair of values : BookID and DateOut.