customer: customer\_id int, name varchar;

employee: employee\_id int, name varchar;

publisher: publisher\_id int, name varchar;

reservation: reservation\_id int, date date, bookcopy\_id int (FK), customer\_id int (FK), employee\_id int (FK);

loan: loan\_id int, bookcopy\_id int (FK), customer\_id in (FK)t, employee\_id int (FK);

author: author\_id int, name varchar;

book: book\_id int, name varchar, publisher\_id int (FK), book\_has\_keyword\_id int (FK), shelf\_id int (FK), book\_has\_author\_id int (FK), article\_has\_subject\_area\_id in (FK)t;

article: article\_id int. name varchar, journal\_id int (FK), article\_has\_keyword\_id int (FK), article\_has\_author\_id int (FK), article\_has\_subject\_area\_id int (FK);

journal: journal\_id int, name varchar, publisher\_id int (FK), shelf\_id int (FK);

keyword: keyword\_id int, name varchar, keyword\_id int (FK);

subject\_area: subject\_area\_id int, name varchar;

shelf: shelf\_id int, subject\_area\_id int (FK);

article\_has\_keyword: article\_has\_keyword\_id int, article\_id int (FK), keyword\_id int (FK);

book\_has\_keyword: book\_has\_keyword\_id int, book\_id int (FK), keyword\_id int (FK);

article\_has\_author: article\_has\_author\_id int, relevance int (FK), article\_id int, author\_id int (FK);

book\_has\_author: book\_has\_author\_id int, relevance int, book\_id int (FK), author\_id int (FK);

article\_has\_subject\_area: article\_has\_subject\_area\_id int, article\_id int (FK), subject\_area\_id int (FK);

book\_has\_subject\_area: book\_has\_subject\_area\_id int, book\_id int (FK), subject\_area\_id int (FK);