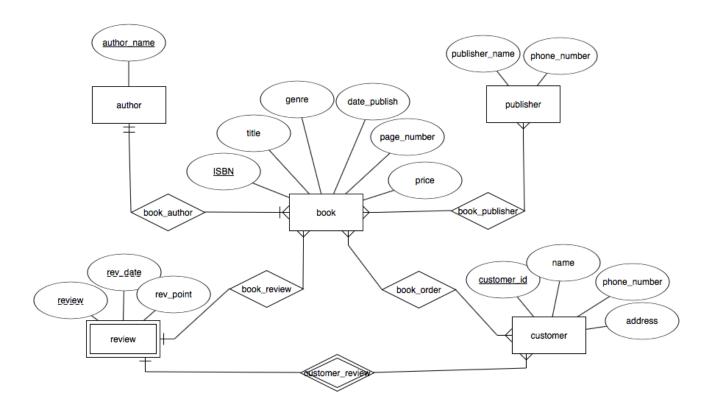
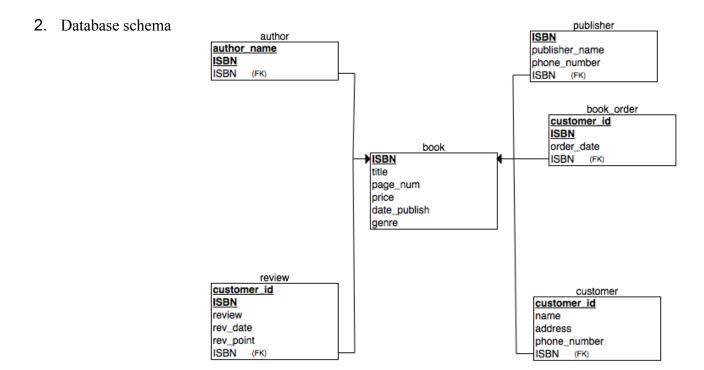
1. ER-Diagram





3. Normalization

book (<u>ISBN</u>, title, page_num, price, date_publish, genre);

ISBN is a super key; thus lossless join and dependency preservation are possible.

author (author_name, ISBN);

author_name and isbn are both super key; thus lossless join and dependency preservation are possible.

publisher (publisher name, phone number, <u>ISBN</u>);

isbn is a super key; thus lossless join and dependency preservation are possible.

customer (customer id, name, address, phone number);

customer id_is a super key; thus lossless join and dependency preservation are possible.

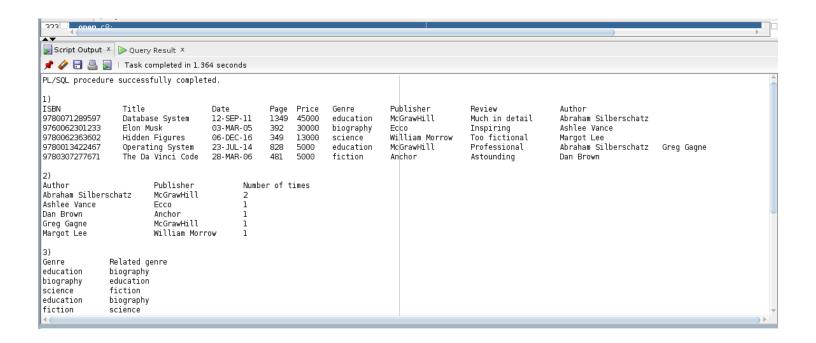
review (customer id, ISBN, review, rev date, rev point);

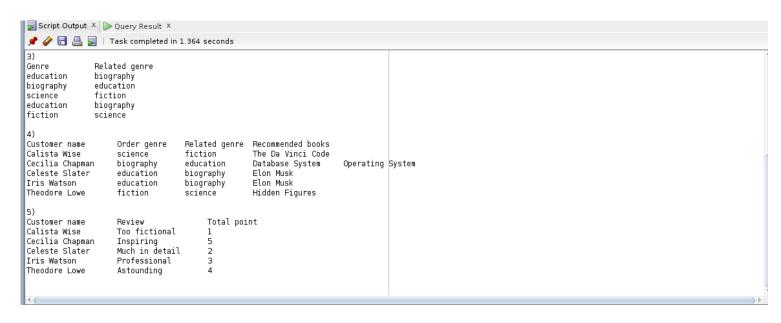
customer_id and isbn is a super key; thus lossless join and dependency preservation are possible.

book order (customer id, ISBN, order date);

customer_id and order_date are both super key; thus lossless join and dependency preservation are possible.

4. The following 2 snapshots are the query results:





(PS: all the code is in Book.sql file)