Exercise 2

school	teacher	course	room	grade	book	publisher	IoanDate

1NF (First Normal Form) Rules:

- Each table cell should contain a single value.
- Each record needs to be unique.

Hence, the table itself is 1NF

2NF (Second Normal Form) Rules:

- Rule 1- Be in 1NF
- Rule 2- Single Column Primary Key that does not functionally dependent on any subset of candidate key relations.

Table 1:

bookld	school	teacher	course	room	grade	publisher	IoanDate

Table 2:

bookld	book
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3NF (Third Normal Form) Rules:

- Rule 1- Be in 2NF
- Rule 2- Has no transitive functional dependencies

Table 1:

bookld	schoolld	teacher	course	room	grade	publisher	IoanDate

Table 2:

bookld	book
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Table 3:

schoolld	bookld	school
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SQL Queries:

 SELECT COUNT(bookld)
 FROM table1
 GROUP BY schoolld

SELECT MAX(loanDate), teacher, book
FROM table2
INNER JOIN table1 ON table2.bookId=table1.bookId
GROUP BY schoolId