1.

 Item ID Color
 Unit Price

 IT001
 Red
 \$16.56

 IT001
 Blue
 \$16.56

 IT002
 Yellow
 \$17.48

 IT003
 Green
 \$19.76

 IT004
 Blue
 \$20.00

2.

Supplier ID	Store ID
SP001	S1
SP001	S3
SP002	S1
SP003	2
SP004	S3

Store ID Location

S1 New YorkS2 Rhode Island

S3 Vermont

3.

Book ID	Category ID	Price
1	1	\$27.99
2	2	\$17.99
3	1	\$20.99
4	3	\$40.99
5	2	\$19.99

Category ID Category Desc Cooking Travel Computers

Exercise 2: Normalize Academic Database ERD

You need to identify misplaced attributes and explain which normalization rule they violate.

In the FACULTY entity, the attributes Login Date and Login Time are likely misplaced as they refer to login events rather than being intrinsic to a faculty member. These could be separated into a different table for login events. This violates the 1NF, as they contain data that could repeat (multiple login times).

In the STUDENT entity, Number of Working Days, Number of Days Off, and Eligibility for Exam could depend on academic progress.

Exercise 3

Normalization:

Split into Users, Messages, and Servers tables. "Server ID" is repeated and should be separated out.