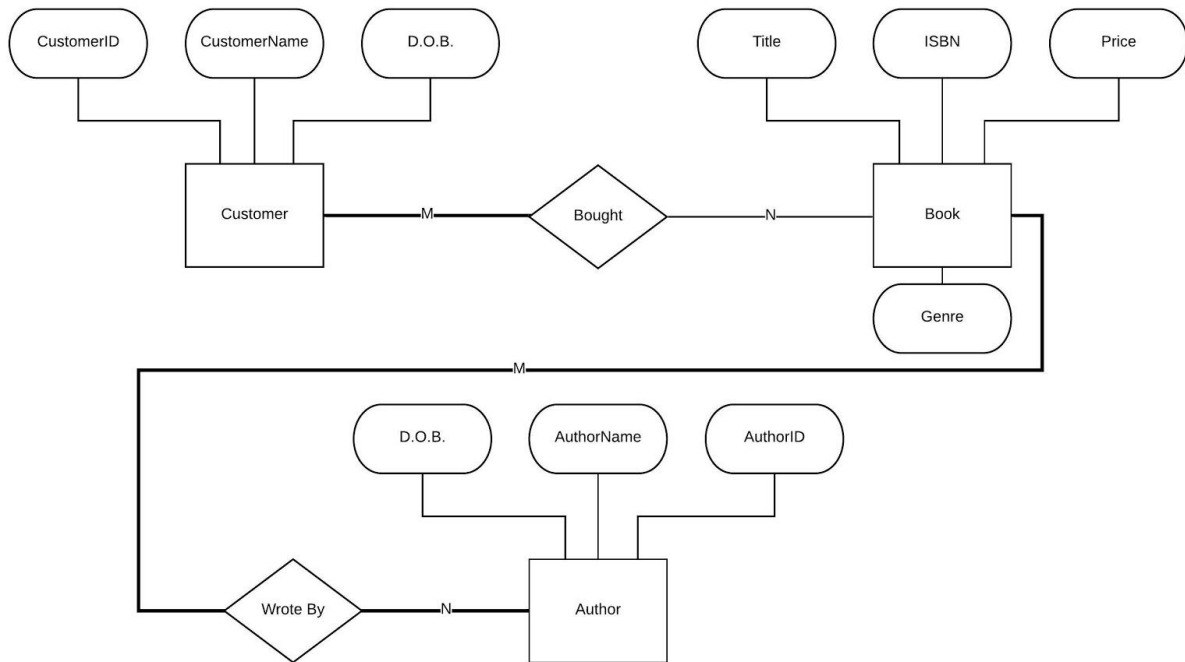
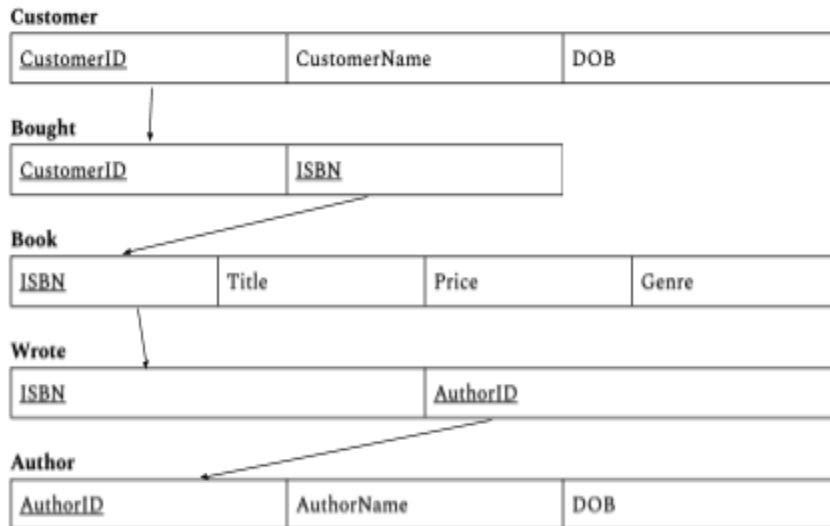


Example 2:
ERD:



Relational Map



Data Dictionary:**Customer:**

Field name	Data type	NULL Constraint
<u>CustomerID</u>	INT	NOT NULL
CustomerName	VARCHAR(50)	NOT NULL
DOB	DATE	

Bought:

Field name	Data type	NULL Constraint
<u>CustomerID</u>	INT	NOT NULL
<u>ISBN</u>	INT	NOT NULL

Book:

Field name	Data type	NULL Constraint
<u>ISBN</u>	INT	NOT NULL
Title	VARCHAR(50)	NOT NULL
Price	INT	NOT NULL
Genre	VARCHAR(50)	NOT NULL

Wrote:

Field name	Data type	NULL Constraint
<u>ISBN</u>	INT	NOT NULL
<u>AuthorID</u>	INT	NOT NULL

Author

Field name	Data type	NULL Constraint
<u>AuthorID</u>	INT	NOT NULL
AuthorName	VARCHAR(50)	NOT NULL
DOB	DATE	

```

CREATE TABLE Customer
(
    CustomerID INTEGER NOT NULL,
    CustomerName VARCHAR(50) NOT NULL,
    DOB DATE,
    PRIMARY KEY (CustomerID)
);
CREATE TABLE Book
(
    ISBN INTEGER NOT NULL,
    Title VARCHAR(50) NOT NULL,
    Price INTEGER NOT NULL,
    Genre VARCHAR(50) NOT NULL,
    PRIMARY KEY (ISBN)
);
CREATE TABLE Author
(
    AuthorID INTEGER NOT NULL,
    AuthorName VARCHAR(50) NOT NULL,
    DOB DATE,
    PRIMARY KEY (AuthorID)
);
CREATE TABLE Bought
(
    CustomerID INTEGER NOT NULL,
    ISBN INTEGER NOT NULL,
    PRIMARY KEY (CustomerID, ISBN),
    FOREIGN KEY (CustomerID) References Customer(CustomerID),
    FOREIGN KEY (ISBN) References Book(ISBN),
);
CREATE TABLE Wrote
(
    AuthorID INTEGER NOT NULL,
    ISBN INTEGER NOT NULL,
    PRIMARY KEY (AuthorID, ISBN),
    FOREIGN KEY (AuthorID) References Author(AuthorID),
    FOREIGN KEY (ISBN) References Book(ISBN),
);

```

INSERT INTO Customer (CustomerID, CustomerName, DOB) VALUES (1, 'John Doe', '1/1/2000');

INSERT INTO Customer (CustomerID, CustomerName, DOB) VALUES (2, 'Jane Doe', '1/1/2000');

INSERT INTO Book (ISBN, Title, Price, Genre) VALUES (9783161484100, 'The Logic of Scientific Discovery', '10', 'Philosophy');

INSERT INTO Book (ISBN, Title, Price, Genre) VALUES (9781400079278, 'Kafka on the Shore', '10', 'Fiction');

INSERT INTO Author (AuthorID, AuthorName, DOB) VALUES ('1', 'Karl Popper', '10', '7/28/1902');

INSERT INTO Author (AuthorID, AuthorName, DOB) VALUES ('2', 'Haruki Murakami', '10', '1/12/1949');

INSERT INTO Bought (ISBN, CustomerID) VALUES (9783161484100, 1);

INSERT INTO Bought (ISBN, CustomerID) VALUES (9781400079278, 2);

INSERT INTO Bought (ISBN, CustomerID) VALUES (9783161484100, 2);

INSERT INTO Wrote (ISBN, AuthorID) VALUES (9783161484100, 1);

INSERT INTO Wrote (ISBN, AuthorID) VALUES (9781400079278, 2);