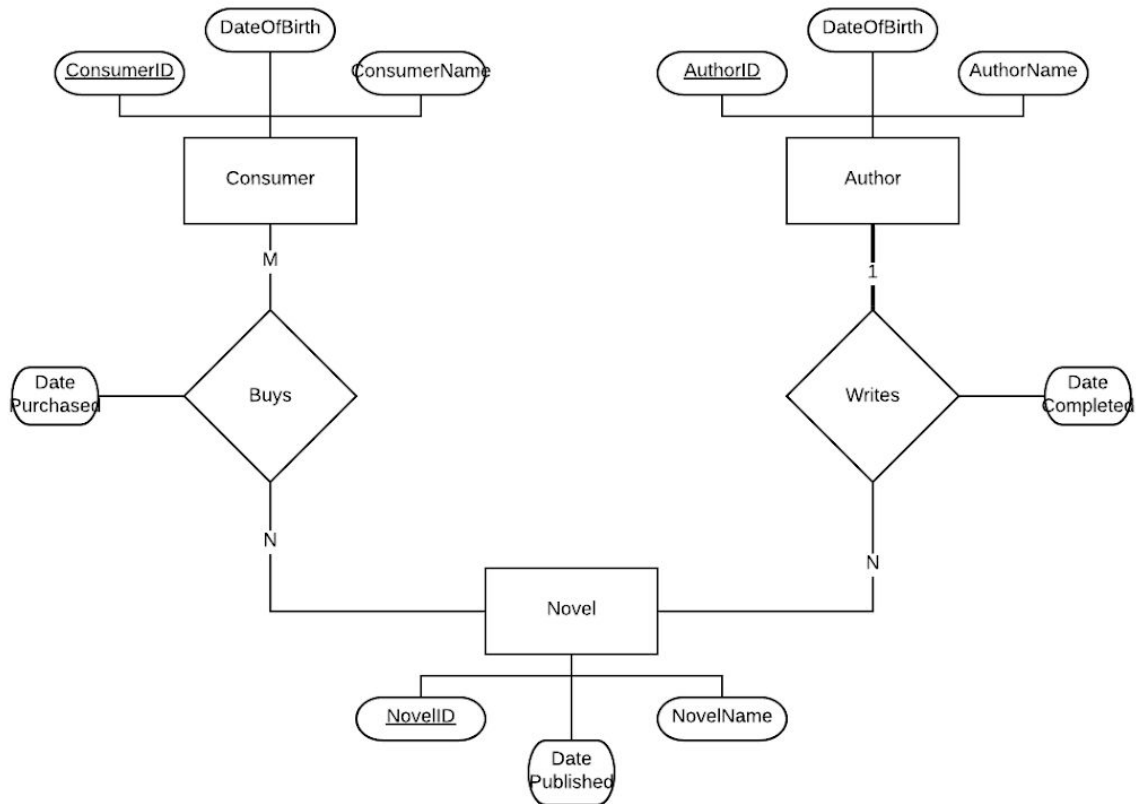


ERD



Relational Map

Consumer

<u>ConsumerID</u>	ConsumerName	DateOfBirth
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ConsumerBuysNovel

<u>ConsumerID</u>	<u>NovelID</u>	<u>DatePurchased</u>
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Novel

<u>NovelID</u>	NovelName	DatePublished
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AuthorWritesNovel

<u>NovelID</u>	<u>AuthorID</u>	<u>DateCompleted</u>
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Author

<u>AuthorID</u>	AuthorName	DateOfBirth
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Data Dictionary

Consumer

ConsumerID	INTEGER	NOT NULL
ConsumerName	VARCHAR(50)	NOT NULL
DateOfBirth	DATE	NOT NULL

ConsumerBuysNovel

ConsumerID	INTEGER	NOT NULL
NovelID	INTEGER	NOT NULL
DatePurchased	DATE	NOT NULL

Novel

NovelID	INTEGER	NOT NULL
NovelName	VARCHAR(50)	NOT NULL
DatePublished	DATE	NOT NULL

AuthorWritesNovel

NovelID	INTEGER	NOT NULL
AuthorID	INTEGER	NOT NULL
DateCompleted	DATE	NOT NULL

Author

AuthorID	INTEGER	NOT NULL
AuthorName	VARCHAR(50)	NOT NULL
DateOfBirth	DATE	NOT NULL

DDL

DROP TABLE IF EXISTS ConsumerBuysNovels;

DROP TABLE IF EXISTS AuthorWritesNovel;

DROP TABLE IF EXISTS Consumer;

DROP TABLE IF EXISTS Novel;

DROP TABLE IF EXISTS Author;

CREATE TABLE Consumer

```
(
    ConsumerID INTEGER NOT NULL,
    ConsumerName VARCHAR(50) NOT NULL,
    DateOfBirth DATE NOT NULL,
    PRIMARY KEY (ConsumerID)
);
```

CREATE TABLE Novel

```
(
    NovelID INTEGER NOT NULL,
    NovelName VARCHAR(50) NOT NULL,
    DatePublished DATE NOT NULL,
    PRIMARY KEY (NovelID)
);
```

CREATE TABLE Author

```
(
    AuthorID INTEGER NOT NULL,
    AuthorName VARCHAR(50) NOT NULL,
    DOB DATE NOT NULL,
    PRIMARY KEY (AuthorID)
);
```

CREATE TABLE ConsumerBuysNovels

```
(
    ConsumerID INTEGER NOT NULL,
    NovelID INTEGER NOT NULL,
    DatePurchased DATE NOT NULL,
    PRIMARY KEY (ConsumerID, NovelID, DatePurchased),
    FOREIGN KEY (ConsumerID) References Consumer(ConsumerID),
```

```
FOREIGN KEY (NovelID) References Novel(NovelID)  
);
```

```
CREATE TABLE AuthorWritesNovel  
(  
    NovelID INTEGER NOT NULL,  
    AuthorID INTEGER NOT NULL,  
    DateCompleted DATE NOT NULL,  
    PRIMARY KEY (NovelID, AuthorID, DateCompleted),  
    FOREIGN KEY (NovelID) References Novel(NovelID)  
    FOREIGN KEY (AuthorID) References Author(AuthorID),  
);
```

DML

INSERT INTO Author VALUES (00, "John Doe", "01/12/1984");

INSERT INTO Author VALUES (01, "Jane Doe", "23/12/1987");

INSERT INTO Novel VALUES (00, "Jomeo and Ruliet", "01/03/2010");

INSERT INTO AuthorWritesNovel VALUES (00, 00, "01/04/2010");

INSERT INTO Novel VALUES (01, "Iamlet", "11/06/2010");

INSERT INTO AuthorWritesNovel VALUES (00, 01, "11/07/2010");

INSERT INTO Novel VALUES (02, "Nacbeth", "06/09/2010");

INSERT INTO AuthorWritesNovel VALUES (01, 02, "06/10/2010");

INSERT INTO Novel VALUES (03, "Pthello", "16/12/2010");

INSERT INTO AuthorWritesNovel VALUES (01, 03, "16/01/2011");

INSERT INTO Consumer VALUES (00, "Justin Le", "14/08/2003");

INSERT INTO ConsumerBuysNovels VALUES (00, 00, "09/01/2020");

INSERT INTO ConsumerBuysNovels VALUES (00, 01, "24/01/2020");

INSERT INTO ConsumerBuysNovels VALUES (00, 03, "09/02/2020");

INSERT INTO Consumer VALUES (01, "Justine Lay", "14/08/2003");

INSERT INTO ConsumerBuysNovels VALUES (01, 00, "11/01/2020");

INSERT INTO ConsumerBuysNovels VALUES (01, 00, "22/02/2020");