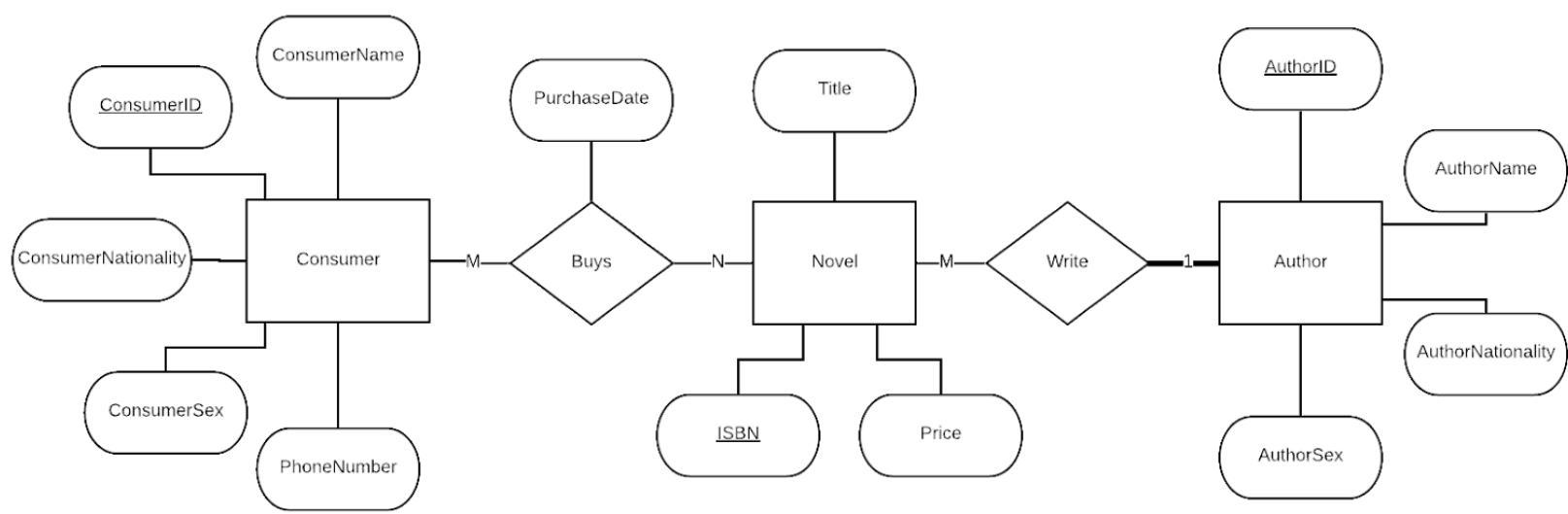


# Novel Database

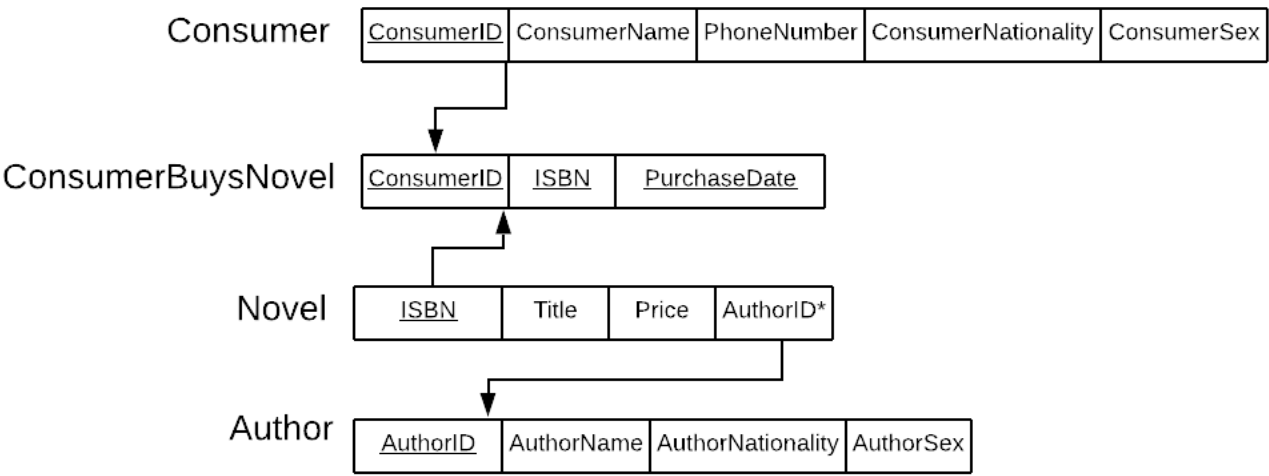
## Prompt

Consumers buy novels all the time. Novels are written by one author. Brainstorm at least 3 attributes would be important to store for each entity and make an ERD.

## Entity-Relationship Diagram (ERD)



## Relational Map



## Mini Data Dictionary

### **Consumer**

<u>ConsumerID</u>	INT	NOT NULL
ConsumerName	VarChar(40)	NOT NULL
ConsumerNationality	VarChar(40)	NOT NULL
ConsumerSex	VarChar(1)	NOT NULL
PhoneNumber	INT	

### **ConsumerBuysNovel**

<u>ConsumerID</u>	INT	NOT NULL
<u>ISBN</u>	INT	NOT NULL
<u>PurchaseDate</u>	DATE	NOT NULL

### **Novel**

	INT	NOT NULL
Title	VarChar(40)	NOT NULL
Price	FLOAT	NOT NULL
AuthorID*	INT	NOT NULL

### **Author**

<u>AuthorID</u>	INT	NOT NULL
AuthorName	VarChar(40)	NOT NULL
AuthorNationality	VarChar(40)	NOT NULL
AuthorSex	VarChar(1)	NOT NULL

## Data Definition Language (DDL)

-- Table Creation (DDL)

DROP TABLE IF EXISTS ConsumerBuysNovel;

DROP TABLE IF EXISTS Consumer;

DROP TABLE IF EXISTS Novel;

DROP TABLE IF EXISTS Author;

CREATE TABLE Consumer

```
(
    ConsumerID          INTEGER          NOT NULL,
    ConsumerName        VARCHAR(40)      NOT NULL,
    ConsumerNationality VARCHAR(40)      NOT NULL,
    ConsumerSex          VARCHAR(1)      NOT NULL,
    PhoneNumber          INTEGER,
    PRIMARY KEY (ConsumerID)
);
```

CREATE TABLE Author

```
(
    AuthorID            INTEGER          NOT NULL,
    AuthorName          VARCHAR(40)      NOT NULL,
    AuthorNationality   VARCHAR(40)      NOT NULL,
    AuthorSex            VARCHAR(1)      NOT NULL,
    PRIMARY KEY (AuthorID)
);
```

CREATE TABLE Novel

```
(
    ISBN                INTEGER          NOT NULL,
    Title               VARCHAR(40)      NOT NULL,
    Price               FLOAT            NOT NULL,
    AuthorID            INTEGER          NOT NULL,
    PRIMARY KEY (ISBN),
    FOREIGN KEY (AuthorID) REFERENCES Author(AuthorID)
);
```

```

CREATE TABLE ConsumerBuysNovel
(
    ConsumerID          INTEGER          NOT NULL,
    ISBN                INTEGER          NOT NULL,
    PurchaseDate        DATE             NOT NULL,
    PRIMARY KEY (ConsumerID, ISBN, PurchaseDate),
    FOREIGN KEY (ConsumerID) REFERENCES Consumer(ConsumerID),
    FOREIGN KEY (ISBN) REFERENCES Novel(ISBN)
);

```

-- Table Population (DML)

```

INSERT INTO Consumer (ConsumerName, ConsumerNationality, ConsumerSex,
PhoneNumber) VALUES ('Henry Smith', 'USA', 'M', '0904439841');
INSERT INTO Consumer (ConsumerName, ConsumerNationality, ConsumerSex,
PhoneNumber) VALUES ('Elizabeth Wilson', 'UK', 'F', '0909481034');
INSERT INTO Consumer (ConsumerName, ConsumerNationality, ConsumerSex,
PhoneNumber) VALUES ('Viet Nguyen', 'Vietnam', 'M', '0904536444');
INSERT INTO Consumer (ConsumerName, ConsumerNationality, ConsumerSex,
PhoneNumber) VALUES ('Josh Brown', 'USA', 'M', null);

```

```

INSERT INTO Author (AuthorName, AuthorNationality, AuthorSex) VALUES ('J K Rowling', 'UK',
'F');
INSERT INTO Author (AuthorName, AuthorNationality, AuthorSex) VALUES ('Rick Riordan',
'USA', 'M');
INSERT INTO Author (AuthorName, AuthorNationality, AuthorSex) VALUES ('Chinua Achebe',
'Nigeria', 'M');
INSERT INTO Author (AuthorName, AuthorNationality, AuthorSex) VALUES ('William Golding',
'UK', 'M');

```

-- J K Rowling

```

INSERT INTO Novel (ISBN, Title, Price, AuthorID) VALUES (9788700631625, 'Harry Potter and
the Philosopher's Stone', '10.99', '1');
INSERT INTO Novel (ISBN, Title, Price, AuthorID) VALUES (9780605928183, 'Harry Potter and
the Chamber of Secrets', '10.99', '1');

```

-- Rick Riordan

```

INSERT INTO Novel (ISBN, Title, Price, AuthorID) VALUES (9780616541418, 'Percy Jackson & the
Olympians: The Lightning Thief', '17.99', '2');
INSERT INTO Novel (ISBN, Title, Price, AuthorID) VALUES (9783844905373, 'The Kane
Chronicles: The Red Pyramid', '17.99', '2');

```

-- Chinua Achebe

INSERT INTO Novel (ISBN, Title, Price, AuthorID) VALUES (9780908300181, 'Things Fall Apart', '5.99', '3');

-- William Golding

INSERT INTO Novel (ISBN, Title, Price, AuthorID) VALUES (9781404690301, 'Lord of the Flies', '5.99', '4');

INSERT INTO ConsumerBuysNovel (ConsumerID, ISBN, PurchaseDate) VALUES (1, 9780616541418, '02/10/2015');

INSERT INTO ConsumerBuysNovel (ConsumerID, ISBN, PurchaseDate) VALUES (1, 9780616541418, '12/01/2016');

INSERT INTO ConsumerBuysNovel (ConsumerID, ISBN, PurchaseDate) VALUES (2, 9788700631625, '17/04/2014');

INSERT INTO ConsumerBuysNovel (ConsumerID, ISBN, PurchaseDate) VALUES (2, 9780605928183, '24/04/2014');

INSERT INTO ConsumerBuysNovel (ConsumerID, ISBN, PurchaseDate) VALUES (3, 9780908300181, '24/11/2019');

INSERT INTO ConsumerBuysNovel (ConsumerID, ISBN, PurchaseDate) VALUES (4, 9780908300181, '24/11/2019');

INSERT INTO ConsumerBuysNovel (ConsumerID, ISBN, PurchaseDate) VALUES (4, 9781404690301, '24/11/2019');