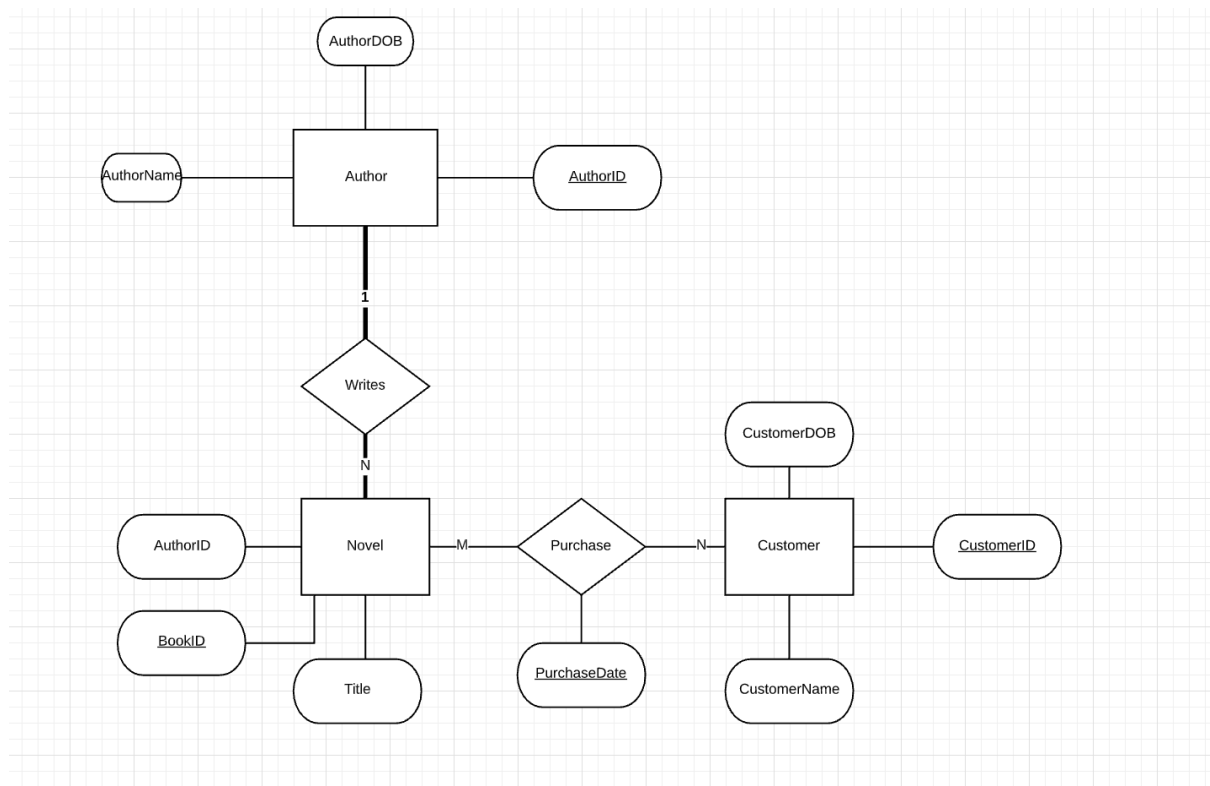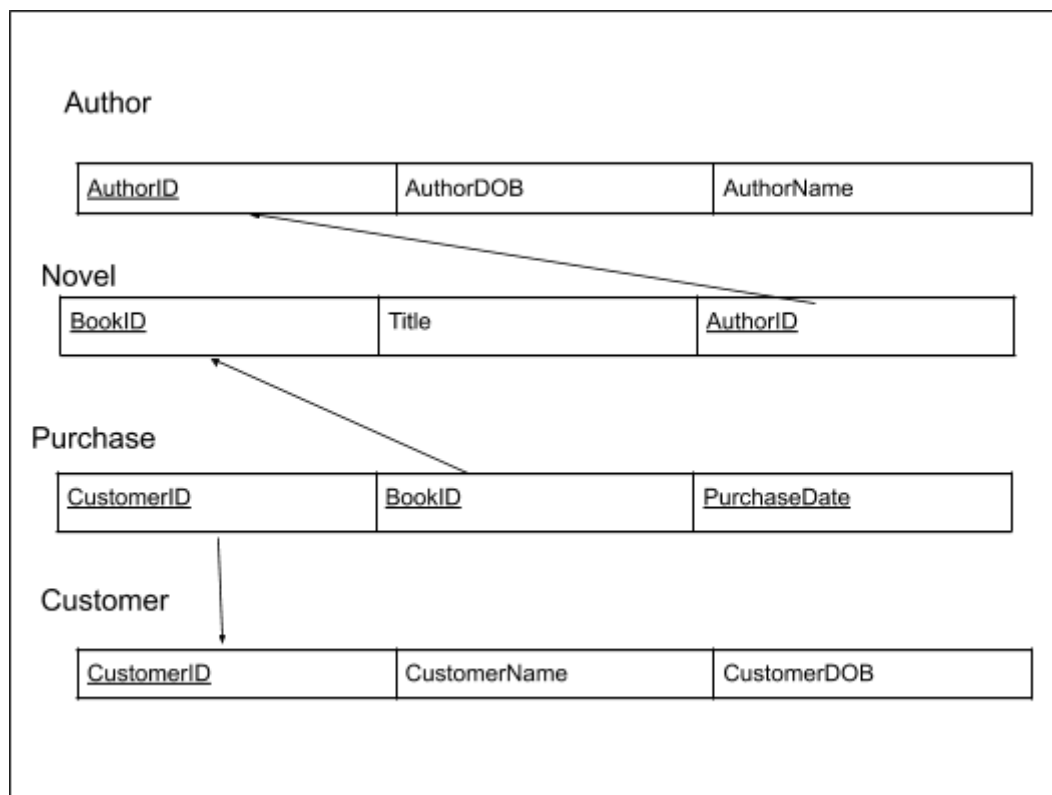## ERD (San & Albert)

ERD RELATIONAL MAPPING (San & Albert)

DATATYPE (San & Albert)

Author

AuthorID	INT	NOT NULL
AuthorDOB	DATE	NOT NULL
AuthorName	VARCHAR(50)	NOT NULL

Novel

BookID	INT	NOT NULL
Title	VARCHAR(50)	NOT NULL
AuthorID	INT	NOT NULL

Purchase

CustomerID	INT	NOT NULL
BookID	INT	NOT NULL
PurchaseDate	DATE	NOT NULL

Customer

CustomerID	INT	NOT NULL
CustomerName	VARCHAR(50)	NOT NULL
CustomerDOB	DATE	NOT NULL

DDL Part 1(Albert)

```
DROP TABLE IF EXISTS Purchase;
DROP TABLE IF EXISTS Novel;
DROP TABLE IF EXISTS Author;
DROP TABLE IF EXISTS Customer;

CREATE TABLE Author (
       AuthorID INTEGER NOT NULL,
       AuthorDOB       DATE NOT NULL,
       AuthorName      VARCHAR(50) NOT NULL,
       PRIMARY KEY(AuthorID)
);
```

```sql
CREATE TABLE Novel (
        BookID   INTEGER NOT NULL,
        Title     VARCHAR(50) NOT NULL,
        AuthorIDINTEGER NOT NULL,
        PRIMARY KEY(BookID),
        FOREIGN KEY(AuthorID) REFERENCES Author(AuthorID)
);




CREATE TABLE Customer (
        CustomerID       INTEGER NOT NULL,
        CustomerName    VARCHAR(50) NOT NULL,
        CustomerDOB     DATE NOT NULL,
        PRIMARY KEY(CustomerID)
);




CREATE TABLE Purchase (
        CustomerID       INTEGER NOT NULL,
        BookID   INTEGER NOT NULL,
        PurchaseDate     INTEGER NOT NULL,
        PRIMARY KEY(CustomerID, BookID, PurchaseDate),
        FOREIGN KEY(BookID) REFERENCES Novel(BookID),
        FOREIGN KEY(CustomerID) REFERENCES Customer(CustomerID)
);
```

Part 2 (San)

```sql
INSERT INTO Author(AuthorID, AuthorDOB, AuthorName) VALUES (1, '8/24/1977', 'John Green');
INSERT INTO Author(AuthorID, AuthorDOB, AuthorName) VALUES (2, '9/21/1947', 'Stephen King');
INSERT INTO Author(AuthorID, AuthorDOB, AuthorName) VALUES (3, '2/27/1902', 'John Steinbeck');
INSERT INTO Author(AuthorID, AuthorDOB, AuthorName) VALUES (4, '4/4/1928', 'Maya Angelou');

INSERT INTO Novel(BookID, Title, AuthorID) VALUES (1, 'Looking for Alaska', 1);
INSERT INTO Novel(BookID, Title, AuthorID) VALUES (2, 'The Fault in Our Stars', 1);
INSERT INTO Novel(BookID, Title, AuthorID) VALUES (3, 'The Shining', 2);
INSERT INTO Novel(BookID, Title, AuthorID) VALUES (4, 'The Grapes of Wrath', 3);
INSERT INTO Novel(BookID, Title, AuthorID) VALUES (5, 'Of Mice and Men', 3);
INSERT INTO Novel(BookID, Title, AuthorID) VALUES (6, 'East of Eden', 3);
INSERT INTO Novel(BookID, Title, AuthorID) VALUES (7, 'I Know Why the Caged Bird Sings', 4);
INSERT INTO Novel(BookID, Title, AuthorID) VALUES (8, 'And Still I Rise', 4);

INSERT INTO Customer(CustomerID, CustomerDOB, CustomerName) VALUES (1, '2/7/2003', 'San Kwon');
INSERT INTO Customer(CustomerID, CustomerDOB, CustomerName) VALUES (2, '9/9/2002', 'Albert Wang');
INSERT INTO Customer(CustomerID, CustomerDOB, CustomerName) VALUES (3, '10/7/2003', 'Ben Nguyen');

INSERT INTO Purchase(PurchaseDate, CustomerID, BookID) VALUES ('1/3/2020', 1, 6);
INSERT INTO Purchase(PurchaseDate, CustomerID, BookID) VALUES ('2/24/2020', 1, 3);
INSERT INTO Purchase(PurchaseDate, CustomerID, BookID) VALUES ('11/17/2019', 1, 7);
INSERT INTO Purchase(PurchaseDate, CustomerID, BookID) VALUES ('11/25/2019', 2, 1);
INSERT INTO Purchase(PurchaseDate, CustomerID, BookID) VALUES ('12/24/2019', 2, 4);
```