Title: Wendy_Rzechula_Assignment_8_2_WhatABook_DatabaseModelingScripts

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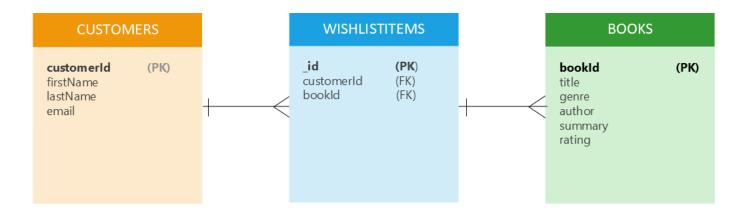
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Description: Assignment 8.2 - WhatABook Database Modeling and Scripts

ORD

Collections:

- Books
- Customers
- Wishlistitems



- A customer can have many wishlist items.
- Each wishlist item links a customerId and bookId.
- Books are not nested they remain a separate collection.

NoSQL Data structure

// install-whatabook

```
use whatabook;
db.dropDatabase();
// Create collections
db.createCollection("books");
db.createCollection("customers");
db.createCollection("wishlistitems");
// Create books
db.books.insertMany([
  bookId: "B1001",
  title: "The Midnight Library",
  genre: "Fantasy Fiction",
  author: { authorId: "A1001", name: "" },
  summary: " A woman discovers a mysterious library between life and death that lets her explore all the lives she could have lived.",
  rating: 4.7
  bookId: "B1002",
  title: " The Silent Patient ",
  genre: " Psychological Thriller ",
  author: { authorId: "A1002", name: "" },
  summary: " A famous painter shoots her husband and never speaks another word. A psychotherapist becomes obsessed with
uncovering her motive. ",
  rating: 4.5
 },
```

```
bookld: "B1003",
  title: " Where the Crawdads Sing ",
  genre: " Mystery / Coming-of-Age ",
  author: { authorId: "A1003", name: "" },
  summary: " An abandoned girl grows up alone in the marshlands of North Carolina and becomes entangled in a murder
investigation. ",
  rating: 4.3
},
]);
// Create customers
db.customers.insertMany([
  customerld: "C1001",
 firstName: "Ryesha",
 lastName: "Reed",
  email: "rreed@books.com",
  wishlist: ["B1001", "B1002"],
   favorites: ["B1002"]
  },
  customerId: "C1002",
  firstName: "Joe",
  lastName: "Green",
  email: "green@books.com",
  wishlist: ["B1001"],
```

```
favorites: ["B1002"]
         },
         customerId: "C1003",
         firstName: "Jennifer",
         lastName: "Lagerlout",
         email: "jlagerlout@books.com",
         wishlist: ["B1003"],
          favorites: []
         },
        ]);
        // Create wishlists
       db.wishlistitems.insertMany([
        { customerId: "C1001", bookId: "B1001" },
        { customerId: "C1002", bookId: "B1002" },
        { customerId: "C1002", bookId: "B1001" },
        { customerId: "C1003", bookId: "B1003" },
        ]);
Queries
       // Display all books
       db.books.find({}, { _id: 0, title: 1, author: 1, genre: 1 });
       // Display a list of books by genre
```

db.books.find({genre: "Fantasy Fiction" }, { _id: 0, title: 1, author: 1 });

```
// Display a list of books by author
db.books.find({ "author.name": "Delia Owens" }, { _id: 0, title: 1, genre: 1 });
// Display all books
db.books.findOne({ bookId: "B1002" });
```