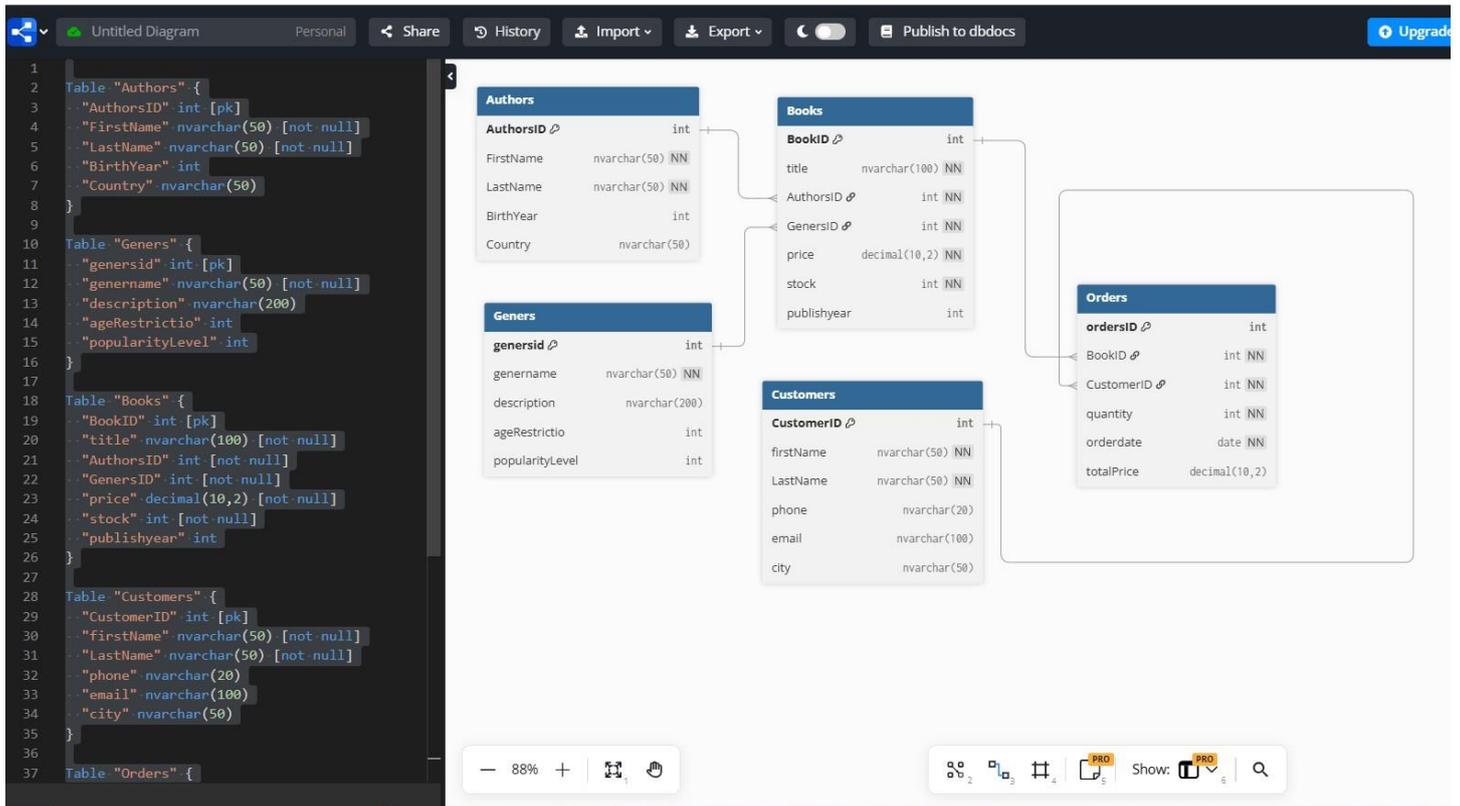# КНИЖАРНИЦА

create table Authors (AuthorsID int PRIMARY key, FirstName nvarchar (50) not null,
 LastName nvarchar (50)not null, BirthYear int, Country nvarchar (50));

create table Geners (genersid int primary key, genername nvarchar (50) not null, description
nvarchar (200), ageRestrictio int, popularityLevel int);

create table Books (BookID int primary key, title nvarchar (100) not null,
AuthorsID int not null,
GenersID int not null, price decimal (10,2) not null,
stock int not null, publishyear int,
foreign key (AuthorsID) references Authors(AuthorsID),
FOREIGN key (GenersID) REFERENCES Geners (genersid)
);

CREATE TABLE Customers (CustomerID int primary key, firstName nvarchar(50) not null,
LastName nvarchar(50) not null, phone nvarchar (20),
email nvarchar (100), city nvarchar(50));

create table Orders (ordersID int primary key, BookID int not null ,
CustomerID int not null , quantity int
not null , orderdate date not null, totalPrice decimal (10,2),
foreign key (CustomerID) REFERENCES Customers (CustomerID),
foreign key (BookID) REFERENCES Books(BookID));

Добавяне на данни в таблицата Authors
insert into Authors VALUES
(1,'Colleen', 'Hoover', 1979, 'USA'),
(2, 'Sarah', 'Maas', 1986, 'USA'),
(3, 'Leigh', 'Bardugo', 1975, 'USA'),
(4, 'Holly', 'Black', 1971, 'USA'),
(5, 'Alice', 'Oseman', 1994, 'UK'),
(6, 'Jennifer', 'Armentrout', 1980, 'USA'),

(7, 'Stephenie', 'Meyer', 1973, 'USA'),
(8, 'R.F', 'Kuang', 1996, 'USA');

INSERT INTO Geners VALUES
(1,'Fantasy', 'Magic worlds', 12, 10),
(2,'Romantasy', 'Fantasy romance', 14, 10),
(3,'Dark Romance', 'Dark mature romance', 16, 9),
(4,'Contemporary Romance', 'Modern love stories', 14, 9),
(5,'YA Fiction', 'Young adult', 12, 8),
(6,'Sci-Fi Fantasy', 'Space and future', 12, 8),
(7,'Mystery Romance', 'Mystery with romance', 14, 7),
(8,'LGBTQ+ Fiction', 'Queer representation', 15, 9);

INSERT INTO Books VALUES
(1,'A Court of Thorns and Roses', 2, 2, 32.90, 40, 2015),
(2, 'Six of Crows', 3, 1, 29.90, 35, 2016),
(3, 'The Cruel Prince', 4, 1, 26.50, 30, 2018),
(4, 'It Ends With Us', 1, 4, 24.90, 50, 2016),
(5, 'It Starts With Us', 1, 4, 25.90, 45, 2022),
(6,'Heartstopper Vol. 1', 5, 8, 19.90, 60, 2019),
(7, 'Twilight', 7, 4, 23.50, 25, 2005),
(8, 'Yellowface', 8, 5, 28.90, 20, 2023);

INSERT INTO Customers VALUES
(1,'Aleks', 'Nikolov', '0888123456', 'aleks@mail.com', 'Sofia'),
(2,'Maya', 'Todorova', '0899445566', 'maya@mail.com', 'Plovdiv'),
(3,'Kristina', 'Dancheva', '0877654433', 'kichi@mail.com', 'Varna'),
(4, 'Viktor', 'Velinov', '0899554321', 'viktor@mail.com', 'Burgas'),
(5,'Simona', 'Ilieva', '0888877665', 'simona@mail.com', 'Sofia'),
(6,'Gabriel', 'Petkov', '0899223344', 'gabriel@mail.com', 'Ruse'),
(7, 'Elena', 'Zlateva', '0877111222', 'elena@mail.com', 'Veliko Tarnovo'),
(8,'Martin', 'Stoyanov', '0888456789', 'martin@mail.com', 'Stara Zagora');

  INSERT INTO Orders VALUES
(1, 1, 1, 1, '2025-02-10', 32.90),
(2, 2, 4, 2, '2025-02-11', 49.80),
(3, 3, 2, 1, '2025-02-11', 29.90),
(4, 4, 6, 1, '2025-02-12', 19.90),
(5, 5, 5, 1, '2025-02-12', 25.90),
(6, 6, 7, 2, '2025-02-13', 47.00),
(7, 7, 3, 1, '2025-02-13', 26.50),
(8, 8, 8, 1, '2025-02-14', 28.90);

  Добавяне на нова колона "IsAvailable" от тип BIT в таблицата "Books"

ALTER TABLE Books ADD IsAvailable BIT;

Извличане на всички записи от таблицата "Books", за да се видят всички данни след добавянето на новата колона
 SELECT* from books

   Актуализиране на колоната "IsAvailable" за всички записи в таблицата "Books", като се задава стойност 1 (за налични книги)

```sql
UPDATE Books SET IsAvailable = 1;
```

Изтриване на всички записи от таблицата "Customers", при които градът е "Ruse"
```sql
DELETE FROM Customers WHERE City = 'Ruse';
```

Извеждане на всички останали записи от таблицата "Customers" след изтриването
```sql
select*from Customers
```

Извличане на всички книги с цена над 25
```sql
SELECT * FROM Books WHERE Price > 25;
```

Извличане на всички автори от САЩ, родени след 1980 година
```sql
SELECT * FROM Authors WHERE Country = 'USA' AND BirthYear > 1980;
```

Подреждане на клиентите по град в азбучен ред
```sql
SELECT * FROM Customers ORDER BY City ASC;
```

Брой книги във всеки жанр
```sql
SELECT genersid, COUNT(*) AS NumberOfBooks FROM Books GROUP BY genersid;
```

Статистика за книгите
```sql
SELECT
   SUM(Stock) AS TotalStock,
   AVG(Price) AS AvgPrice,
   MIN(Price) AS MinPrice,
   MAX(Price) AS MaxPrice
FROM Books;
```

Извличане на информация за поръчките с клиенти и книги
```sql
SELECT Customers.FirstName, Customers.LastName,
    Books.Title, Orders.Quantity, Orders.TotalPrice
FROM Orders
INNER JOIN Customers ON Orders.CustomerID = Customers.CustomerID
INNER JOIN Books ON Orders.BookID = Books.booksid;
```

```sql
create view BooksWhithAuthors as SELECT Books.title, Authors.FirstName, Authors. lastname,
BOOKS.pRICE FROM Books
INNER JOIN Authors ON BOOKS.AuthorsID = Authors.AuthorsID;
SELECT*FROM BooksWhithAuthors;
```

Изтриване на таблиците (в правилен ред)
```sql
DROP TABLE IF EXISTS Orders;
DROP TABLE IF EXISTS Books;
DROP TABLE IF EXISTS Authors;
DROP TABLE IF EXISTS Geners;
DROP TABLE IF EXISTS Customers;
```