Online Book Publishing and Sales Platfrom - Database0 Documentation

DATABASE NAME : BOOKS_PUBLISHING_SYSTEM

CREATING TABLES:

CREATE TABLE Publisher(

publisher_id int primary key,

name varchar(250) not null,

contact_details varchar(250)

);

Creating a Publisher Table and the columns are publisher_id data type Int (Primary key), name data type varchar, contact_details data type varchar.

CREATE TABLE Book(

book_id int primary key,

title varchar(250) not null,

ISBL varchar(100) not null,

edition int not null,

publication_year int,

price decimal(10, 2),

publisher_id int,

foreign key (publisher_id) references Publisher(publisher_id) on delete cascade

);

Creating a Book Table and the columns are book_id data type Int (Primary key), title data type varchar, ISBL data type Int, edition data type Int, publication_year data type Int, price data type decimal, publisher_id data type Int (Foreign key).

CREATE TABLE Genere(

genere_id int primary key,

genere_name varchar(250) not null

);

Creating a Genere Table and the columns are genere_id data type Int (Primary key), genere_name data type varchar.

CREATE TABLE Book_genere(

book_id int,

genere_id int,

primary key(book_id, genere_id),

foreign key (book_id) references Book(book_id),

foreign key (genere_id) references Genere(genere_id)

);.

Creating a Book_genere Table and the columns are book_id data type Int (Primary key and Foreign key), genere_id data type int(Primary key).

CREATE TABLE Author(

author_id int primary key,

name varchar(250) not null,

biography text

);

Creating a Author Table and the columns are author_id data type Int (Primary key), name data type varchar, biography data type text.

CREATE TABLE Book_Author(

book_id int,

author_id int,

primary key (book_id, author_id),

foreign key (book_id) references Book(book_id),

foreign key (author_id) references Author(author_id)

);

Creating a Book_author Table and the columns are book_id data type int (Primary key and Foreign key), author_id data type Int (Primary key and Foreign key) and this is a Junction Table.

```
CREATE TABLE Customer(
 customer_id int primary key,
 name varchar(250) not null
 );
```

Creating a Customer Table and the columns are customer_id data type int (Primary key), name data type varchar.

```
CREATE TABLE Address(
address_id int primary key,
customer_id int,
street varchar(250),
city varchar(250),
state varchar(250),
country varchar(250),
foreign key (customer_id) references Customer(customer_id)
);
```

Creating a Address Table and the columns are address_id data type Int (Primary key), customer_id data type int (Primary key and Foreign key), street data type varchar, city data type text, state data type varchar, country data type varchar.

```
CREATE TABLE Wishlist(
customer_id int,
book_id int,
primary key (customer_id, book_id),
foreign key (customer_id) references Customer(customer_id),
foreign key (book_id) references Book(book_id)
);
```

Creating a Wishlist Table and the columns are customer_id data type Int (Primary key and Foreign key), book_id data type int (Primary key and Foreign key).

```
CREATE TABLE Orderr(
order_id int primary key,
order_date date not null,
customer_id int,
payment_details varchar(250),
shipping_address_id int,
foreign key (customer_id) references Customer(customer_id),
foreign key (shipping_address_id) references Address(address_id)
);
```

Creating a Orderr Table and the columns are order_id data type Int (Primary key),order_date data type date, customer_id data type int (Primary key and Foreign key), payment_details data type varchar, shipping_address_id data type int(Foreign key).

```
CREATE TABLE Order_book(
Orderitem_id int primary key,
order_id int,
book_id int,
quantity int not null,
foreign key (order_id) references Orderr(order_id),
foreign key (book_id) references Book(book_id)
);
```

Creating a Order_book Table and the columns are orderitem_id data type Int (Primary key),order_id data type (Foreign key), book_id data type int (Foreign key), quantity data type int.

INSERTING DATA INTO TABLES:

```
INSERT INTO Publisher (publisher_id, name, contact_details)
VALUES
 (1, 'Penguin Random House', 'contact@penguin.com'),
 (2, 'HarperCollins', 'support@harpercollins.com');
```

publisher_id	name	contact_details
1	Penguin Random House	contact@penguin.com
2	HarperCollins	support@harpercollins.com
NULL	NULL	NULL

INSERT INTO Book (book_id, title, ISBL, edition, publication_year, price, publisher_id)

VALUES

(1, 'The Silent Patient', '9781250301697', 1, 2019, 499.99, 1),

(2, 'Atomic Habits', '9780735211292', 1, 2018, 399.50, 2),

(3, 'Clean Code', '9780132350884', 2, 2008, 699.00, 1);

book_id	title	ISBL	edition	publication_year	price	publisher_id
1	The Silent Patient	9781250301697	1	2019	499.99	1
2	Atomic Habits	9780735211292	1	2018	399.50	2
3	Clean Code	9780132350884	2	2008	699.00	1
NULL	NULL	NULL	NULL	NULL	NULL	NULL

INSERT INTO Genere (genere_id, genere_name)

VALUES

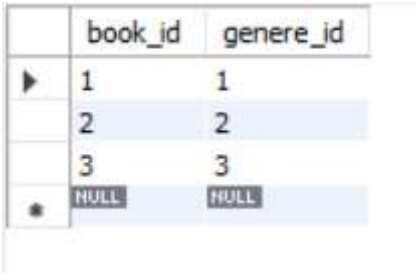
(1, 'Thriller'),

(2, 'Self-help'),

(3, 'Programming');

genere_id	genere_name
1	Thriller
2	Self-help
3	Programming
NULL	NULL

```
INSERT INTO Book_genere (book_id, genere_id)
VALUES
 (1, 1), -- The Silent Patient -> Thriller
 (2, 2), -- Atomic Habits -> Self-help
 (3, 3); -- Clean Code -> Programming
```

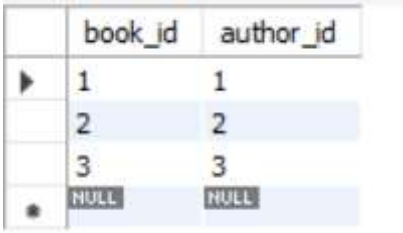


book_id	genere_id
1	1
2	2
3	3
NULL	NULL

```
INSERT INTO Author (author_id, name, biography)
VALUES
 (1, 'Alex Michaelides', 'British-Cypriot author.'),
 (2, 'James Clear', 'Speaker and writer on habits.'),
 (3, 'Robert C. Martin', 'Also known as Uncle Bob, software engineer.');
```

author_id	name	biography
1	Alex Michaelides	British-Cypriot author.
2	James Clear	Speaker and writer on habits.
3	Robert C. Martin	Also known as Uncle Bob, software engineer.
NULL	NULL	NULL

```
INSERT INTO Book_Author (book_id, author_id)
VALUES
  (1, 1), -- The Silent Patient -> Alex
  (2, 2), -- Atomic Habits -> James
  (3, 3); -- Clean Code -> Robert
```



book_id	author_id
1	1
2	2
3	3
NULL	NULL

```
INSERT INTO Customer (customer_id, name)
VALUES
  (1, 'Rachel Green'),
  (2, 'Monica Geller');
```

customer_id	name
1	Rachel Green
2	Monica Geller
NULL	NULL

```
INSERT INTO Address (address_id, customer_id, street, city, state, country)
VALUES
 (1, 1, '123 Park Ave', 'New York', 'NY', 'USA'),
 (2, 2, '456 Central Perk', 'New York', 'NY', 'USA');
```

address_id	customer_id	street	city	state	country
1	1	123 Park Ave	New York	NY	USA
2	2	456 Central Perk	New York	NY	USA
NULL	NULL	NULL	NULL	NULL	NULL

```
INSERT INTO Wishlist (customer_id, book_id)
VALUES
 (1, 2), -- Rachel -> Atomic Habits
 (1, 3), -- Rachel -> Clean Code
 (2, 1); -- Monica -> The Silent Patient
 (3, 'Clean Code', '9780132350884', 2, 2008, 699.00, 1);
```

customer_id	book_id
2	1
1	2
1	3
NULL	NULL

INSERT INTO Orderr (order_id, order_date, customer_id, payment_details, shipping_address_id)

VALUES

(1, '2025-06-01', 1, 'Credit Card', 1),

(2, '2025-06-02', 2, 'PayPal', 2);

order_id	order_date	customer_id	payment_details	shipping_address_id
1	2025-06-01	1	Credit Card	1
2	2025-06-02	2	PayPal	2
NULL	NULL	NULL	NULL	NULL

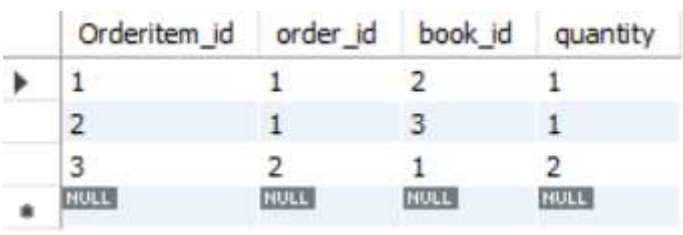
INSERT INTO Order_book (Orderitem_id, order_id, book_id, quantity)

VALUES

(1, 1, 2, 1), -- Rachel ordered Atomic Habits

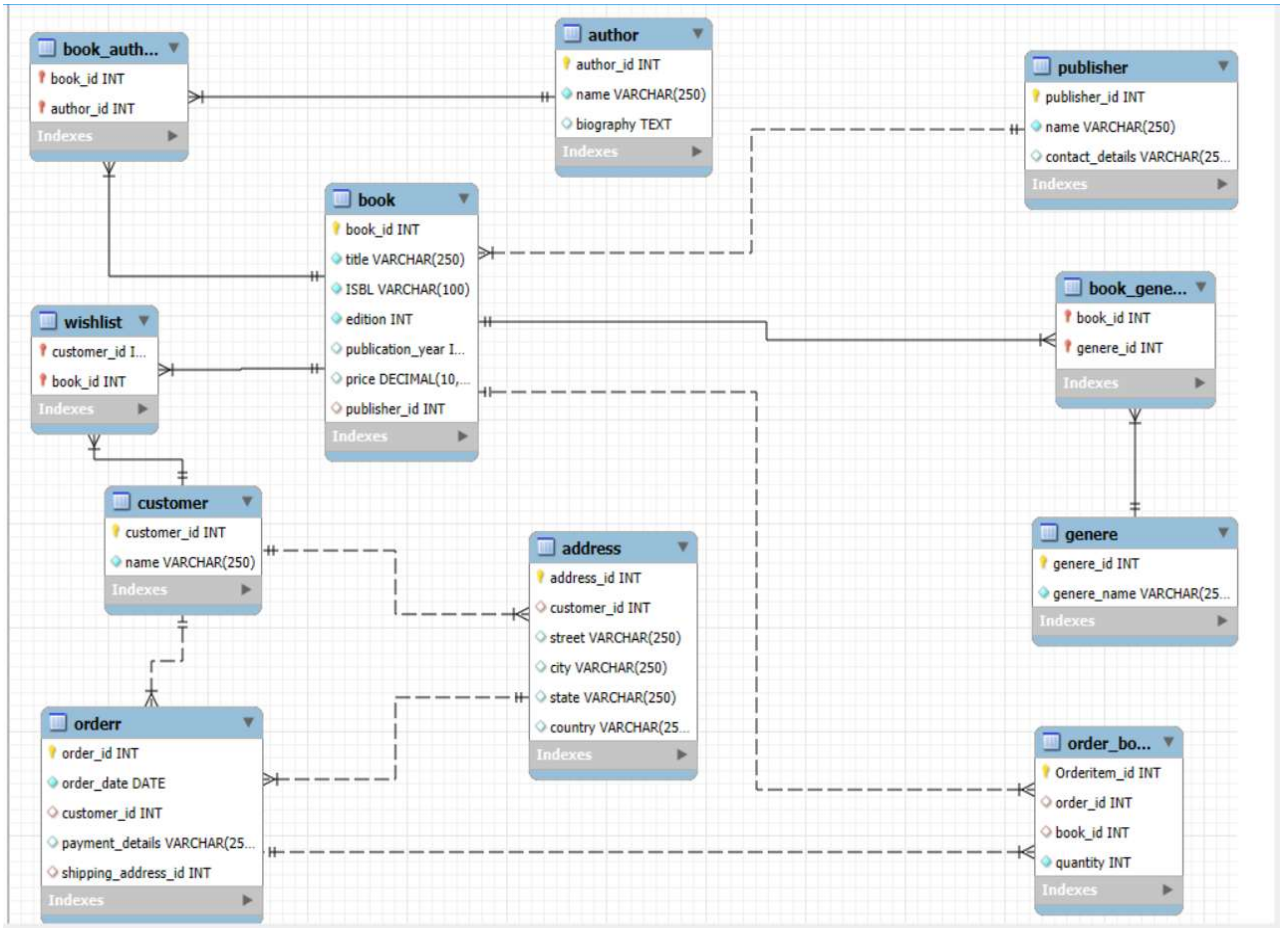
(2, 1, 3, 1), -- Rachel also ordered Clean Code

(3, 2, 1, 2); -- Monica ordered 2 copies of The Silent Patient



Orderitem_id	order_id	book_id	quantity
1	1	2	1
2	1	3	1
3	2	1	2
NULL	NULL	NULL	NULL

ER Diagram:


book_auth...
book_id INT
author_id INT
Indexes
author
author_id INT
name VARCHAR(250)
biography TEXT
Indexes
publisher
publisher_id INT
name VARCHAR(250)
contact_details VARCHAR(25...
Indexes
book
book_id INT
title VARCHAR(250)
ISBL VARCHAR(100)
edition INT
publication_year I...
price DECIMAL(10,...
publisher_id INT
Indexes
book_gene...
book_id INT
genere_id INT
Indexes
wishlist
customer_id I...
book_id INT
Indexes
customer
customer_id INT
name VARCHAR(250)
Indexes
address
address_id INT
customer_id INT
street VARCHAR(250)
city VARCHAR(250)
state VARCHAR(250)
country VARCHAR(25...
Indexes
genere
genere_id INT
genere_name VARCHAR(25...
Indexes
orderr
order_id INT
order_date DATE
customer_id INT
payment_details VARCHAR(25...
shipping_address_id INT
Indexes
order_bo...
Orderitem_id INT
order_id INT
book_id INT
quantity INT
Indexes