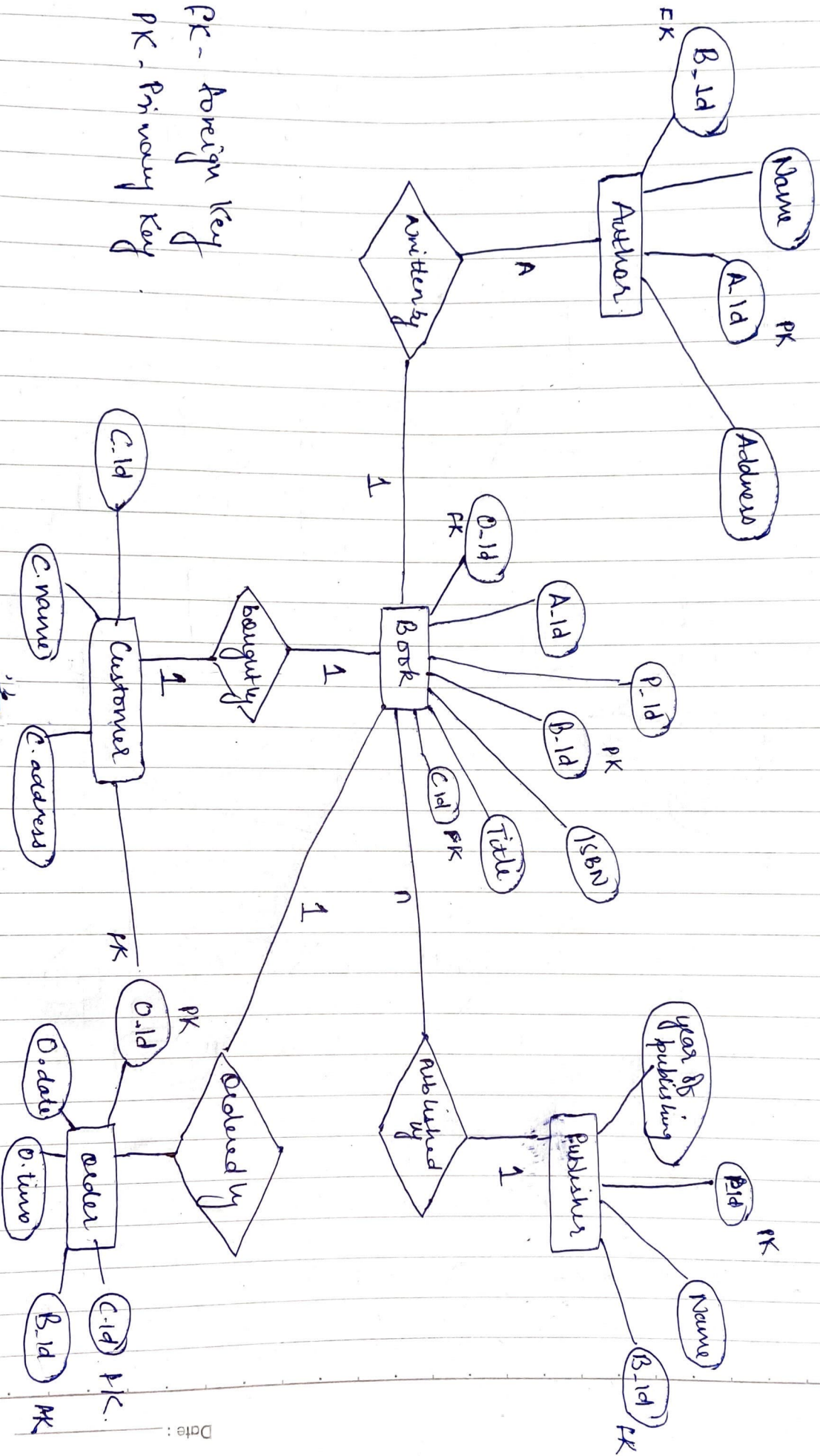


PK - Foreign Key
PK - Primary Key



Book

B.Id → PK
P.Id → FK
Title
ISBN
C.Id → FK
A.Id → FK
O.Id → FK

Author

A.Id → PK
B.Id → FK
Name
Address

Publisher

P.Id → PK
B.Id → FK
Name
Year of Publishing

Customer

C.Id → PK
C.Name
C.Address
O.Id → FK

Order

O.Id → PK
C.Id → FK
B.Id → FK
Order Date
Order Time

Customer Book Order Id Publisher Author

1NF Customer Book Order Id Publisher Author

ABC 1	B1	1	XYZ 1	S
ABC 2	B2	2	XYZ 2	D

2NF

<u>Order Id</u>	<u>Customer</u>	<u>Book</u>	<u>Book</u>	<u>Publisher</u>	<u>Author</u>
1	.	B1	B1	XYZ 1	S
2	.	B2	B2	XYZ 2	D

Initial Scheme (DNF)

Table: Customer

C-ID (PK)

Name (Atomic)

Phone-No. (Non atomic - Violates DNF)

Table: Book

B-ID (PK)

Name (Atomic)

Genre (Atomic)

Price (Atomic)

1NF

Table: Customer

C-ID (PK)

Name (Atomic)

Phone No. (Atomic)

Tables: Order

O-ID (PK)

B-ID (FK)

Quantity (Atomic)

Table: Book

B-ID (PK)

Name: (Atomic)

Genre (Atomic)

Price (Atomic)

2NFTable: Customer

C-ID (PK)

Name (Atomic)

Phone No (Atomic)

Table: Order

O-ID (PK)

C-ID (FK)

Table: Order_Book

Order_Book Id (PK)

Order Id (FK)

Book Id (FK)

Quantity (Atomic)

Table: Book

Book Id (PK)

Name (Atomic)

Genre (Atomic)

Price (Atomic)

3NF

Table: Customer

C_id (PK)

Name (Atomic)

Phone no (Atomic)

Table: Order (2NF)

O_id (PK)

Other related attributes.

Table: Book (2NF)

B_id (PK)

Name (Atomic)

Genre (Atomic)

Price (Atomic)

Table: Customer_Order

Order_id (FK)

C_id (FK)