```
3. For the given Library database
BOOK (Book_ISBN [PK], Title[Not Null], Publisher_ Name, price[Check Price>0],
Date Of Publication, Book_Copy),
BOOK_AUTHORS (Book_ISBN [PK,FK]Author_Name [PK], Author_City)
-- Create the Library Database
CREATE DATABASE Library;
-- Use the Library Database
USE Library;
CREATE TABLE BOOK (
 Book_ISBN VARCHAR(50) PRIMARY KEY,
 Title VARCHAR(255) NOT NULL,
 Publisher_Name VARCHAR(255),
 Price DECIMAL(10, 2) CHECK (Price > 0),
 Date_Of_Publication DATE,
 Book Copy INT
CREATE TABLE BOOK_AUTHORS (
 Book_ISBN VARCHAR(50),
 Author_Name VARCHAR(255),
 Author_City VARCHAR(255),
 PRIMARY KEY (Book ISBN, Author Name),
FOREIGN KEY (Book ISBN) REFERENCES BOOK(Book ISBN)
);
-- Insert record 1
INSERT INTO BOOK VALUES ('ISBN001', 'Book1', 'Publisher1', 15.99, '2022-01-15', 20);
INSERT INTO BOOK_AUTHORS VALUES ('ISBN001', 'Author1', 'City1');
Solve the following
```

i) Display name of publishers as per no of books published by them in ascending order.

```
SELECT Publisher_Name, COUNT(*) AS No_of_Books
FROM BOOK
GROUP BY Publisher Name
ORDER BY No_of_Books ASC;
```

ii) Get publisher names who published at least one book written by author name like 'K%'.

SELECT DISTINCT b.Publisher\_Name
FROM BOOK b
INNER JOIN BOOK\_AUTHORS ba ON b.Book\_ISBN = ba.Book\_ISBN
WHERE ba.Author\_Name LIKE 'K%';

iii) Get book name and Authors names where book written by maximum authors.

SELECT b.Title, GROUP\_CONCAT(ba.Author\_Name) AS Authors FROM BOOK b
INNER JOIN BOOK\_AUTHORS ba ON b.Book\_ISBN = ba.Book\_ISBN
GROUP BY b.Book\_ISBN, b.Title
ORDER BY COUNT(ba.Author\_Name) DESC
LIMIT 1;

iv) Get publisher names accordingly books published alphabetically

SELECT Publisher\_Name FROM BOOK GROUP BY Publisher\_Name ORDER BY Publisher Name ASC;

v)Find the no of books published in 01 Jan 2014 to till date.

SELECT COUNT(\*) AS No\_of\_Books

FROM BOOK

WHERE Date\_Of\_Publication >= '2014-01-01';