```
1. 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)
Solve the following
CREATE DATABASE Library;
USE Library;
-- Create BOOK Table
CREATE TABLE BOOK (
 Book_ISBN VARCHAR(255) 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 BOOK_AUTHORS Table
CREATE TABLE BOOK_AUTHORS (
 Book ISBN VARCHAR(255),
 Author_Name VARCHAR(255),
 Author_City VARCHAR(255),
 PRIMARY KEY (Book ISBN, Author Name),
 FOREIGN KEY (Book ISBN) REFERENCES BOOK(Book ISBN)
);
-- Insert records into BOOK Table
INSERT INTO BOOK VALUES
('ISBN1', 'Book1', 'Publisher1', 15.99, '2022-01-01', 20),
('ISBN2', 'Book2', 'Publisher2', 12.50, '2021-05-15', 15),
('ISBN3', 'Book3', 'Publisher1', 25.00, '2020-08-20', 30),
('ISBN4', 'Book4', 'Publisher3', 18.75, '2019-03-10', 12),
('ISBN5', 'Book5', 'Publisher2', 10.50, '2018-12-05', 18);
-- Insert records into BOOK AUTHORS Table
INSERT INTO BOOK_AUTHORS VALUES
('ISBN1', 'Author1', 'City1'),
('ISBN1', 'Author2', 'City2'),
('ISBN2', 'Author3', 'City3'),
('ISBN3', 'Author4', 'City4'),
('ISBN4', 'Author5', 'City5');
```

a) Create view BOOK_AUTHOR_INFO consisting Book_ISBN, Title from BOOK Table and Author_Name from BOOK_AUTHORS Table in ascending order of ISBN no.

CREATE VIEW BOOK_AUTHOR_INFO AS SELECT b.Book_ISBN, b.Title, ba.Author_Name FROM BOOK b
JOIN BOOK_AUTHORS ba ON b.Book_ISBN = ba.Book_ISBN ORDER BY b.Book_ISBN ASC;

b) Create an index on Book_Author on table on attribute "Author_Name".

CREATE INDEX idx_Author_Name ON BOOK_AUTHORS (Author_Name);

c) Create table Book_Auto_Increment (BookID int Auto_increament=100, Book Name) insert five records in table.

```
CREATE TABLE Book_Auto_Increment (
BookID INT AUTO_INCREMENT PRIMARY KEY,
Book_Name VARCHAR(255)
);
```

-- Insert five records with automatic increment starting from 100

INSERT INTO Book_Auto_Increment (Book_Name) VALUES ('BookA'), ('BookB'), ('BookC'), ('BookD'), ('BookE');

d) Delete the book from Book table written by Author 'Korth'.

DELETE FROM BOOK
WHERE Book_ISBN IN (SELECT Book_ISBN FROM BOOK_AUTHORS
WHERE Author_Name = 'Korth');

e) Select Book Names from table Book whose copies are in between 10 to 15.

SELECT Title

FROM BOOK

WHERE Book Copy BETWEEN 10 AND 15;