**PROGRAM 7. BOOK DEALER DATABASE  
The following tables are maintained by a book dealer:**

**AUTHOR(author-id: int, name: String, city: String, country: String)**

**PUBLISHER(publisher-id: int, name: String, city: String, country: String)**

**CATALOG (book-id: int, title: String, author-id: int, publisher-id: int, category-id: int, year: int, price: int)**

**CATEGORY(category-id: int, description: String)**

**ORDER-DETAILS(order-no: int, book-id: int, quantity: int)**

**i. Create the above tables by properly specifying the primary keys and the foreign keys.**

CREATE TABLE orderdetails1(

order\_id INT,

book\_id INT,

quantity INT,

PRIMARY KEY(order\_id),

FOREIGN KEY(book\_id) REFERENCES catalogue1(book\_id));

CREATE TABLE publisher1 (

publisher1\_id INT,

publisher1\_name VARCHAR(20),

publisher1\_city VARCHAR(20),

publisher1\_country VARCHAR(20),

PRIMARY KEY(publisher1\_id));

CREATE TABLE category1 (

category\_id INT,

description VARCHAR(30),

PRIMARY KEY(category\_id) );

CREATE TABLE catalogue1(

book\_id INT,

book\_title VARCHAR(30),

author1\_id INT,

publisher1\_id INT,

category\_id INT,

year INT,

price INT,

PRIMARY KEY(book\_id),

FOREIGN KEY(author1\_id) REFERENCES author1(author1\_id),

FOREIGN KEY(publisher1\_id) REFERENCES publisher1(publisher1\_id),

FOREIGN KEY(category\_id) REFERENCES category1(category\_id) );

CREATE TABLE orderdetails1(

order\_id INT,

book\_id INT,

quantity INT,

PRIMARY KEY(order\_id),

FOREIGN KEY(book\_id) REFERENCES catalogue1(book\_id));

**ii. Enter at least five tuples for each relation.**

INSERT INTO author1 (author1\_id,author1\_name,author1\_city,author1\_country) VALUES (1001,'JK Rowling','London','England')

INSERT INTO publisher1 (publisher1\_id,publisher1\_name,publisher1\_city,publisher1\_country) VALUES (2001,'Bloomsbury','London','England')

INSERT INTO category1 (category\_id,description) VALUES

(3001,'Fiction')

INSERT INTO catalogue1 (book\_id,book\_title,author1\_id,publisher1\_id,category\_id,year,price) VALUES (4001,'HP and Goblet Of Fire',1001,2001,3001,2002,600)

INSERT INTO orderdetails1 (order\_id,book\_id,quantity) VALUES (5001,4001,5)

**iii. Give the details of the authors who have 2 or more books in the catalog and the price of the books in the   
catalog and the year of publication is after 2000.**

SELECT \* FROM author1

WHERE author1\_id IN

(SELECT author1\_id FROM catalogue1 WHERE

year>2000 AND price>

(SELECT AVG(price) FROM catalogue1)

GROUP BY author1\_id HAVING COUNT(\*)>1)

3

**iv. Find the author of the book which has maximum sales.**

SELECT author1\_name FROM author1 a,catalogue1 c WHERE a.author1\_id=c.author1\_id AND book\_id IN (SELECT book\_id FROM orderdetails1 WHERE quantity=(SELECT MAX(quantity) FROM orderdetails1))

4

**v. Demonstrate how you increase the price of books published by a specific publisher by 10%.**

UPDATE catalogue1 SET price=1.1\*price WHERE publisher1\_id IN (SELECT publisher1\_id FROM publisher1 WHERE publisher1\_name='pearson')

