```
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)
         Create the above tables by properly specifying the primary keys and
         the foreign keys.
      • create table author (
    author_id INT,
    author_name VARCHAR(20),
    author_city VARCHAR(20),
    author_country VARCHAR(20),
    PRIMARY KEY(author_id));
      • create table publisher (
    publisher_id INT,
    publisher_name VARCHAR(20),
    publisher_city VARCHAR(20),
    publisher_country VARCHAR(20),
    PRIMARY KEY(publisher_id));
      • create table category (
    category_id INT,
    description VARCHAR(30),
    PRIMARY KEY(category_id));
      • CREATE TABLE catalog(
    book_id INT,
    book_title VARCHAR(30),
    author_id INT,
    publisher_id INT,
    category_id INT,
```

```
year INT,
    price INT,
    PRIMARY KEY(book_id),
    FOREIGN KEY(author_id) REFERENCES author(author_id)ON UPDATE CASCADE,
    FOREIGN KEY(publisher_id) REFERENCES publisher(publisher_id)ON UPDATE
   CASCADE,
    FOREIGN KEY(category_id) REFERENCES category(category_id)ON UPDATE
   CASCADE );
      • CREATE TABLE orderdetails(
    order id INT,
    book id INT,
    quantity INT,
    PRIMARY KEY(order_id),
    FOREIGN KEY(book_id) REFERENCES catalog(book_id) ON UPDATE CASCADE);
          Enter at least five tuples for each relation.
INSERT INTO `author` (`author_id`, `author_name`, `author_city`, `author_country`)
                                      Narayan', 'Bengaluru', 'India'), ('102', 'JK
VALUES ('101', 'R
Rowling', 'london', 'England'), ('103', 'Chetan
Bhagat', 'Mumbai', 'India'), ('104', 'Jules
Verne', 'Paris', 'France'), ('105', 'Dan Brown', 'California', 'USA')
 Showing rows 0 - 4 (5 total, Query took 0.0009 seconds.)
 SELECT * FROM `author`
   Show all
                Number of rows:
                                  25 🕶
                                                        Search this table
                                                                                 Sc
                                             Filter rows:
+ Options

▼ author id author name

\leftarrow T \rightarrow
                                                      author city
                                                                   author country

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                                        R K Narayan
                                                      Bengaluru
                                  101
                                                                   India
102 JK Rowling
                                                      london
                                                                   England

    Ø Edit 
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    Opelete

                                       Chetan Bhagat Mumbai
                                                                   India
                                  103

    Ø Edit 
    ¾
    Copy 
    Opelete

                                  104
                                        Jules Verne
                                                      Paris
                                                                   France
                                       Dan Brown
                                                                   USA

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                                  105
                                                      California
INSERT
                                      INTO
                                                                          publisher
```

(publisher\_id,publisher\_name,publisher\_city,publisher\_country) VALUES

```
(101, 'Bloomsbury', 'London', 'England'),
 (102, 'Scholastic', 'Washington', 'USA'),
 (103, 'Pearson', 'London', 'England'),
 (104, 'Rupa', 'Delhi', 'India');
  Showing rows 0 - 3 (4 total, Query took 0.0012 seconds.)
  SELECT * FROM `publisher`
    ☐ Show all | Number of rows:
                               25 🕶
                                          Filter rows:
                                                    Search this table
                                                                           Sort by key:
+ Options
\leftarrow T \rightarrow
                        ▼ publisher id publisher name publisher city publisher country

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                                   501
                                       Bloomsbury
                                                       London
                                                                     England

    □    Ø Edit    ♣ Copy    Oplete

                                   502 Scholastic
                                                       Washington
                                                                     USA
 503
                                       Pearson
                                                       London
                                                                     England

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                                   504
                                       Rupa
                                                       Delhi
                                                                     India
INSERT INTO category (category_id,description) VALUES (701,'Fiction'), (702,'Non-
Fiction'), (703, 'thriller'), (704, 'action'), (705, 'Science fiction')
                 Showing rows 0 - 4 (5 total, Query took 0.0017 seconds.)
                 select * from category
                   ☐ Show all
                                Number of rows:
                                                  25 🕶
                                                             Filter rows:
               + Options

▼ category_id description

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                                                     701
                                                          Fiction
                Edit i Copy Delete
                                                           Non-Fiction
                                                     702
                Edit 3 Copy  Delete
                                                     703
                                                          thriller
                Edit 3 Copy  Delete
                                                           action
                                                     704
                705
                                                          Science fiction
INSERT INTO `catalog` (`book_id`, `book_title`, `author_id`, `publisher_id`, `cate
gory_id`, `year`, `price`) VALUES ('2001', 'Around
                                                        the
                                                                World
                                                                       in Eighty
Days', '104', '503', '703', '1873', '200'), ('2002', 'Malgudi
```

and

Goblet

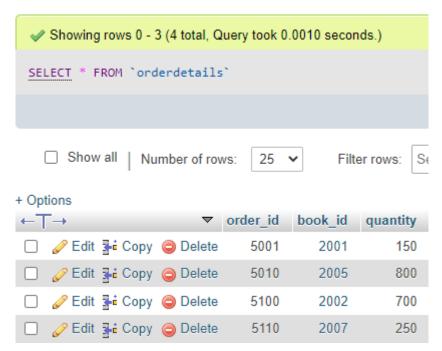
0f

days', '101', '504', '701', '1942', '500'), ('2003', 'HP

Fire', '102', '501', '705', '2002', '600'), ('2004', 'Two
States', '103', '504', '702', '2009', '75'), ('2005', 'HP and Order Of
Phoenix', '102', '503', '704', '2005', '650'), ('2006', 'Da Vinci
Code', '105', '502', '702', '2004', '400'), ('2007', 'Swami and
Friends', '101', '503', '701', '1967', '399')



INSERT INTO `orderdetails` (`order\_id`, `book\_id`, `quantity`) VALUES ('5001', '20
01', '150'), ('5010', '2005', '800'), ('5100', '2002', '700'), ('5110', '2007', '2
50')



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 is above 500 and the year of publication is after 2000.

select DISTINCT a.author\_id,a.author\_city,a.author\_name,a.author\_city
from author a join catalog c on a.author\_id=c.author\_id where

year>2000 and c.author\_id in(select c.author\_id from catalog having count(c.author\_id)>2 and price>500 )



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

SELECT author\_name FROM author WHERE author\_id IN (SELECT author\_id FROM catalog c WHERE book\_id IN(SELECT `book\_id` FROM `orderdetails` WHERE quantity in (SELECT MAX(quantity) FROM orderdetails)))



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

