NAME: Ramya Ramesh

USN: 1BM19CS227

**PROGRAM 7: BOOK DEALER DATABASE**

TABLES:

CREATE DATABASE book\_dealer;

USE book\_dealer;

CREATE TABLE author(

author\_id INT,

author\_name VARCHAR(20),

author\_city VARCHAR(20),

author\_country VARCHAR(20),

PRIMARY KEY(author\_id));

DESC author;

CREATE TABLE publisher(

publisher\_id INT,

publisher\_name VARCHAR(20),

publisher\_city VARCHAR(20),

publisher\_country VARCHAR(20),

PRIMARY KEY(publisher\_id));

DESC publisher;

CREATE TABLE category(

category\_id INT,

category\_desc VARCHAR(30),

PRIMARY KEY(category\_id));

DESC category;

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),

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

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

DESC catalog;

CREATE TABLE order\_details(

order\_id INT,

book\_id INT,

quantity INT,

PRIMARY KEY(order\_id),

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

DESC order\_details;

INSERT INTO author VALUES(1001,'JK Rowling','London','England');

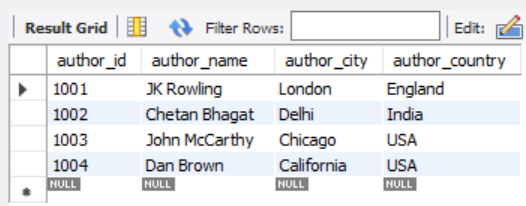
INSERT INTO author VALUES(1002,'Chetan Bhagat','Delhi','India');

INSERT INTO author VALUES(1003,'John McCarthy','Chicago','USA');

INSERT INTO author VALUES(1004,'Dan Brown','California','USA');

COMMIT;

SELECT \* FROM author;



INSERT INTO publisher VALUES(2001,'Bloomsbury','London','England');

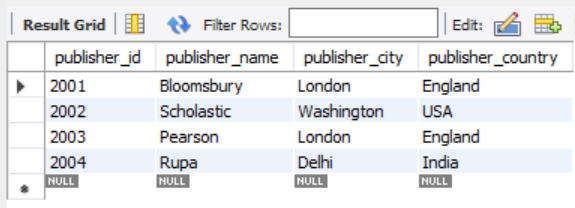
INSERT INTO publisher VALUES(2002,'Scholastic','Washington','USA');

INSERT INTO publisher VALUES(2003,'Pearson','London','England');

INSERT INTO publisher VALUES(2004,'Rupa','Delhi','India') ;

COMMIT;

SELECT \* FROM publisher;



INSERT INTO category VALUES(3001,'Fiction');

INSERT INTO category VALUES(3002,'Non-Fiction');

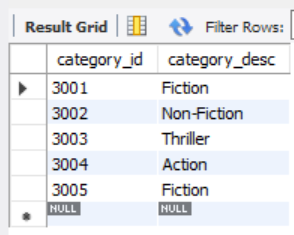
INSERT INTO category VALUES(3003,'Thriller');

INSERT INTO category VALUES(3004,'Action');

INSERT INTO category VALUES(3005,'Fiction');

COMMIT;

SELECT \* FROM category;



INSERT INTO catalog VALUES(4001,'HP and Goblet Of Fire',1001,2001,3001,2002,600);

INSERT INTO catalog VALUES(4002,'HP and Order Of Phoenix',1001,2002,3001,2005,650);

INSERT INTO catalog VALUES(4003,'Two States',1002,2004,3001,2009,65);

INSERT INTO catalog VALUES(4004,'3 Mistakes of my life',1002,2004,3001,2007,55);

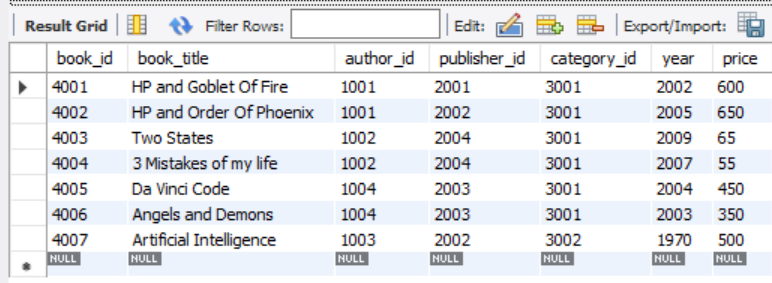
INSERT INTO catalog VALUES(4005,'Da Vinci Code',1004,2003,3001,2004,450);

INSERT INTO catalog VALUES(4006,'Angels and Demons',1004,2003,3001,2003,350);

INSERT INTO catalog VALUES(4007,'Artificial Intelligence',1003,2002,3002,1970,500);

COMMIT;

SELECT \* FROM catalog;



INSERT INTO order\_details VALUES(5001,4001,5);

INSERT INTO order\_details VALUES(5002,4002,7);

INSERT INTO order\_details VALUES(5003,4003,15);

INSERT INTO order\_details VALUES(5004,4004,11);

INSERT INTO order\_details VALUES(5005,4005,9);

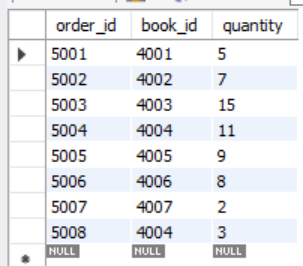
INSERT INTO order\_details VALUES(5006,4006,8);

INSERT INTO order\_details VALUES(5007,4007,2);

INSERT INTO order\_details VALUES(5008,4004,3);

COMMIT;

SELECT \* FROM order\_details;



QUERIES:

1. Give the details of the authors who have 2 or more books in the catalog and the price of the books is greater than the average price of the books in the catalog and the year of publication is after 2000.

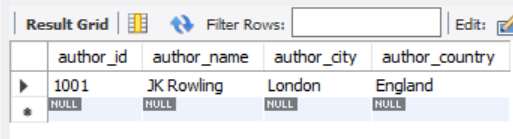
SELECT \* FROM author

WHERE author\_id IN

(SELECT author\_id FROM catalog

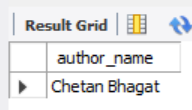
WHERE year>2000 AND price>(SELECT AVG(price) FROM catalog)

GROUP BY author\_id HAVING COUNT(\*)>1);



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

SELECT a.author\_name FROM author a,catalog c WHERE a.author\_id=c.author\_id AND book\_id IN (SELECT book\_id FROM order\_details WHERE quantity = (SELECT MAX(quantity) FROM order\_details));



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

SET SQL\_SAFE\_UPDATES = 0;

UPDATE catalog SET price=1.1\*price

WHERE publisher\_id IN

(SELECT publisher\_id FROM publisher WHERE publisher\_name='pearson');

SELECT \* FROM catalog;

SET SQL\_SAFE\_UPDATES = 1;

