**1BM19CS219 ~ MAHANTESH GATTINA**

**LAB - 7 BOOK DEALER DATABASE**

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

CREATE TABLE author1 (

author1\_id INT,

author1\_name VARCHAR(20),

author1\_city VARCHAR(20),

author1\_country VARCHAR(20),

PRIMARY KEY(author1\_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'),

(1002,'Chetan Bhagat','Mumbai','India'),

(1003,'John McCarthy','Chicago','USA'),

(1004,'Dan Brown','California','USA'),

(1005,'Vivekananda','Kolkata','India');

INSERT INTO publisher1 (publisher1\_id,publisher1\_name,publisher1\_city,publisher1\_country) VALUES

(2001,'Bloomsbury','London','England'),

(2002,'Scholastic','Washington','USA'),

(2003,'Pearson','London','England'),

(2004,'Rupa','Delhi','India'),

(2005,'GRB','Delhi','India');

INSERT INTO category1 (category\_id,description) VALUES

(3001,'Fiction'),

(3002,'Non-Fiction'),

(3003,'thriller'),

(3004,'action'),

(3005,'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),

(4002,'HP and Order Of Phoenix',1001,2002,3001,2005,650),

(4003,'Two States',1002,2004,3001,2009,65),

(4004,'3 Mistakes of my life',1002,2004,3001,2007,55),

(4005,'Da Vinci Code',1004,2003,3001,2004,450),

(4006,'Angels and Demons',1004,2003,3001,2003,350),

(4007,'Artificial Intelligence',1003,2002,3002,1970,500) ;

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

(5001,4001,5),

(5002,4002,7),

(5003,4003,15),

(5004,4004,11),

(5005,4005,9),

(5006,4006,8),

(5007,4007,2),

(5008,4004,3) ;

**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)

1001 JK Rowling London England

**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))

Chetan Bhagat

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

SELECT \* from catalogue1

book\_id book\_title author1\_id publisher1\_id category\_id year price

4001 HP and Goblet Of Fire 1001 2001 3001 2002 600

4002 HP and Order Of Phoenix 1001 2002 3001 2005 650

4003 Two States 1002 2004 3001 2009 65

4004 3 Mistakes of my life 1002 2004 3001 2007 55

4005 Da Vinci Code 1004 2003 3001 2004 450

4006 Angels and Demons 1004 2003 3001 2003 350

4007 Artificial Intelligence 1003 2002 3002 1970 500