13.Create the following tables.

1)PUBLISHER( PID , PNAME ,ADDRESS ,STATE ,PHONE ,EMAILID );

2)BOOK( ISBN ,BOOK\_TITLE , CATEGORY , PRICE , COPYRIGHT\_DATE , YEAR ,PAGE\_COUNT ,PID );

3) AUTHOR(AID,ANAME,STATE,CITY ,ZIP,PHONE,URL )

4) AUTHOR\_BOOK(AID,ISBN);

5) REVIEW(RID,ISBN,RATING);

CREATE TABLE PUBLISHER (

PID INT PRIMARY KEY,

PNAME VARCHAR(255),

ADDRESS VARCHAR(255),

STATE VARCHAR(255),

PHONE VARCHAR(15),

EMAILID VARCHAR(255)

);

CREATE TABLE BOOK (

ISBN INT PRIMARY KEY,

BOOK\_TITLE VARCHAR(255),

CATEGORY VARCHAR(255),

PRICE DECIMAL(10, 2),

COPYRIGHT\_DATE DATE,

YEAR INT,

PAGE\_COUNT INT,

PID INT,

FOREIGN KEY (PID) REFERENCES PUBLISHER(PID)

);

CREATE TABLE AUTHOR (

AID INT PRIMARY KEY,

ANAME VARCHAR(255),

STATE VARCHAR(255),

CITY VARCHAR(255),

ZIP VARCHAR(10),

PHONE VARCHAR(15),

URL VARCHAR(255)

);

CREATE TABLE AUTHOR\_BOOK (

AID INT,

ISBN INT,

FOREIGN KEY (AID) REFERENCES AUTHOR(AID),

FOREIGN KEY (ISBN) REFERENCES BOOK(ISBN)

);

CREATE TABLE REVIEW (

RID INT PRIMARY KEY,

ISBN INT,

RATING INT,

FOREIGN KEY (ISBN) REFERENCES BOOK(ISBN)

);

Solve following queries by SQL

1. Retrieve city, phone, url of author whose name is ‘CHETAN BHAGAT’.

SELECT CITY, PHONE, URL

FROM AUTHOR

WHERE ANAME = 'CHETAN BHAGAT';

2. Retrieve book title, reviewable id and rating of all books.

SELECT B.BOOK\_TITLE, R.ISBN, R.RATING

FROM BOOK B

JOIN REVIEW R ON B.ISBN = R.ISBN;

3. Retrieve book title, price, author name and url for publishers ‘MEHTA’.

SELECT B.BOOK\_TITLE, B.PRICE, A.ANAME, A.URL

FROM BOOK B

JOIN AUTHOR\_BOOK AB ON B.ISBN = AB.ISBN

JOIN AUTHOR A ON AB.AID = A.AID

WHERE B.PID IN (SELECT PID FROM PUBLISHER WHERE PNAME = 'MEHTA');

4. In a PUBLISHER relation change the phone number of ‘MEHTA’ to 123456

UPDATE PUBLISHER

SET PHONE = '123456'

WHERE PNAME = 'MEHTA';

5. Calculate and display the average, maximum, minimum price of each publisher.

SELECT PNAME, AVG(PRICE) AS AVG\_PRICE, MAX(PRICE) AS MAX\_PRICE, MIN(PRICE) AS MIN\_PRICE

FROM PUBLISHER

JOIN BOOK ON PUBLISHER.PID = BOOK.PID

GROUP BY PNAME;

6. Delete details of all books having a page count less than 100.

DELETE FROM BOOK

WHERE PAGE\_COUNT < 100;

7. Retrieve details of all authors residing in city Pune and whose name begins with character

‘C’.

SELECT \*

FROM AUTHOR

WHERE CITY = 'Pune' AND ANAME LIKE 'C%';

8. Retrieve details of authors residing in same city as ‘Korth’.

SELECT A.ANAME, A.STATE, A.CITY

FROM AUTHOR A

WHERE A.CITY = (SELECT CITY FROM AUTHOR WHERE ANAME = 'Korth');

9. Create a procedure to update the value of page count of a book of given ISBN.

DELIMITER //

CREATE PROCEDURE UpdatePageCount(IN bookISBN INT, IN newPageCount INT)

BEGIN

UPDATE BOOK

SET PAGE\_COUNT = newPageCount

WHERE ISBN = bookISBN;

END;

//

DELIMITER ;

10. Create a function that returns the price of book with a given ISBN.

DELIMITER //

CREATE FUNCTION GetBookPrice(bookISBN INT) RETURNS DECIMAL(10, 2)

BEGIN

DECLARE bookPrice DECIMAL(10, 2);

SELECT PRICE INTO bookPrice FROM BOOK WHERE ISBN = bookISBN;

RETURN bookPrice;

END;

//

DELIMITER ;