SQL ASSIGNMENT -1

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Once upon a time, in a small town called SQLville, there was a renowned bookstore named "Books & Bytes." The store had a vast collection of books, ranging from classic literature to modern technology.As part of their college curriculum, the students of SQLville University were tasked with learning the basics of MySQL and database management. To make the learning experience more interactive and practical, the bookstore decided to collaborate with the university and create a hands-on assignment for the students.

Assignment:

You are a student studying computer science at SQLville University, and you have recently started your journey into the world of databases and SQL. The assignment given to you by "Books & Bytes" is as follows:

Create a database named "BooksDB" to store information about the bookstore's collection of books.

Design a table called "Books" to store the details of each book, including the book's title, author, genre, publication year, and price.

Insert at least five books into the "Books" table, ensuring that each book has unique information for all columns.

Write SQL queries to perform the following tasks:

a. Retrieve all the books from the database.

b. Retrieve the details of a book based on its title.

c. Update the price of a book.

d. Delete a book from the database based on its title.

Your task is to complete the assignment by writing the required SQL queries and demonstrating your understanding of basic MySQL concepts.

Good luck with your assignment, and may your SQL skills shine brightly in the realm of databases!

ANSWER:

a. Retrieve all the books from the database

CREATE DATABASE BOOKSDB;

USE BOOKSDB;

CREATE TABLE BOOKS(

SNO INT PRIMARY KEY,

TITLE VARCHAR(30),

AUTHOR VARCHAR(30),

GENRE VARCHAR(30),

PUBLICATIONYEAR INT,

PRICE int

);

DESCRIBE BOOKS;

INSERT INTO BOOKS VALUES(1,"THE GOD OF SMALL THIMGS","ARUNDHATHIROY","FICTION",1997,399);

INSERT INTO BOOKS VALUES(2,"INTERPRETER OF MALDIVES","JHUMPA LAHIRI","FICTION",1999,299);
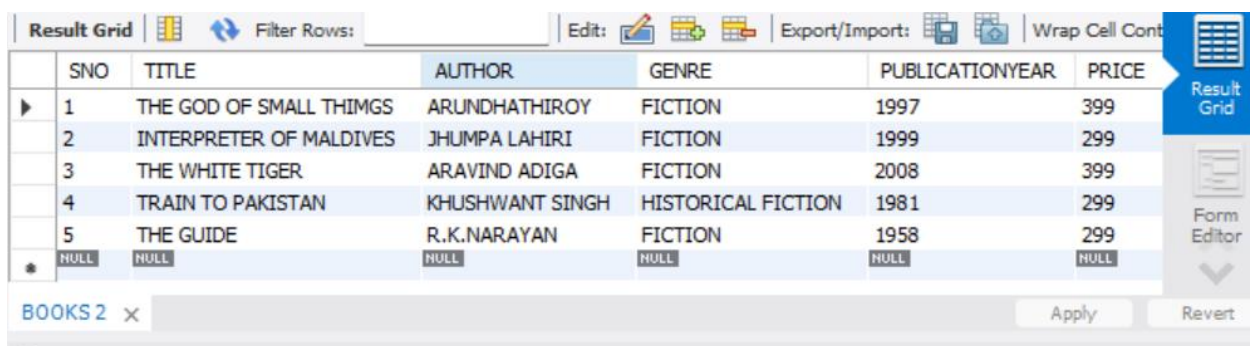
INSERT INTO BOOKS VALUES(3,"THE WHITE TIGER","ARAVIND ADIGA","FICTION",2008,399);

INSERT INTO BOOKS VALUES(4,"TRAIN TO PAKISTAN","KHUSHWANT SINGH","HISTORICAL FICTION",1981,299);

INSERT INTO BOOKS VALUES(5,"THE GUIDE","R.K.NARAYAN","FICTION",1958,299);

SELECT * FROM BOOKS;

OUTPUT:

SNO	TITLE	AUTHOR	GENRE	PUBLICATIONYEAR	PRICE
1	THE GOD OF SMALL THIMGS	ARUNDHATHIROY	FICTION	1997	399
2	INTERPRETER OF MALDIVES	JHUMPA LAHIRI	FICTION	1999	299
3	THE WHITE TIGER	ARAVIND ADIGA	FICTION	2008	399
4	TRAIN TO PAKISTAN	KHUSHWANT SINGH	HISTORICAL FICTION	1981	299
5	THE GUIDE	R.K.NARAYAN	FICTION	1958	299
NULL	NULL	NULL	NULL	NULL	NULL

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b. Retrieve the details of a book based on its title.

CREATE DATABASE BOOKSDB;

USE BOOKSDB;

CREATE TABLE BOOKS(

SNO INT PRIMARY KEY,

TITLE VARCHAR(30),

AUTHOR VARCHAR(30),

GENRE VARCHAR(30),

PUBLICATIONYEAR INT,

PRICE int

);

DESCRIBE BOOKS;

INSERT INTO BOOKS VALUES(1,"THE GOD OF SMALL THIMGS","ARUNDHATHIROY","FICTION",1997,399);

INSERT INTO BOOKS VALUES(2,"INTERPRETER OF MALDIVES","JHUMPA LAHIRI","FICTION",1999,299);
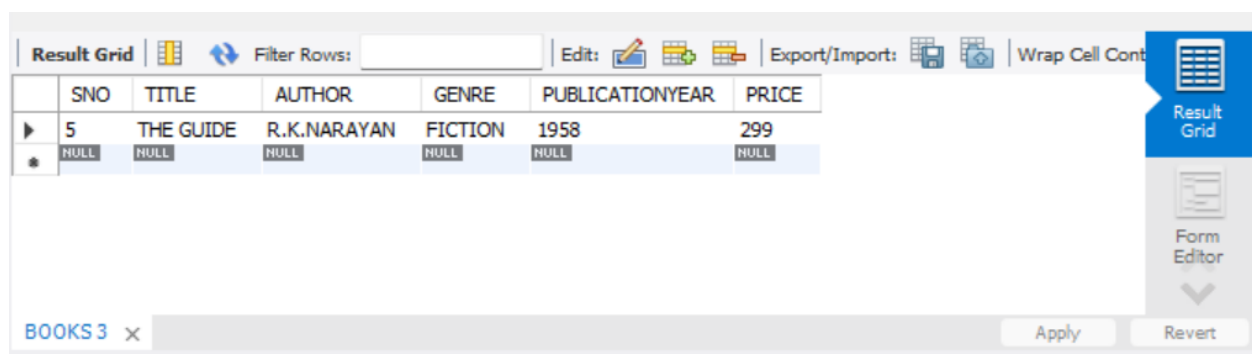
INSERT INTO BOOKS VALUES(3,"THE WHITE TIGER","ARAVIND ADIGA","FICTION",2008,399);

INSERT INTO BOOKS VALUES(4,"TRAIN TO PAKISTAN","KHUSHWANT SINGH","HISTORICAL FICTION",1981,299);

INSERT INTO BOOKS VALUES(5,"THE GUIDE","R.K.NARAYAN","FICTION",1958,299);

SELECT * FROM BOOKS WHERE TITLE="THE GUIDE";

OUTPUT:

SNO	TITLE	AUTHOR	GENRE	PUBLICATIONYEAR	PRICE
5	THE GUIDE	R.K.NARAYAN	FICTION	1958	299
NULL	NULL	NULL	NULL	NULL	NULL

c. Update the price of a book.

CREATE DATABASE BOOKSDB;

USE BOOKSDB;

CREATE TABLE BOOKS(

SNO INT PRIMARY KEY,

TITLE VARCHAR(30),

AUTHOR VARCHAR(30),

GENRE VARCHAR(30),

PUBLICATIONYEAR INT,

PRICE int

);

DESCRIBE BOOKS;

INSERT INTO BOOKS VALUES(1,"THE GOD OF SMALL THIMGS","ARUNDHATHIROY","FICTION",1997,399);

INSERT INTO BOOKS VALUES(2,"INTERPRETER OF MALDIVES","JHUMPA LAHIRI","FICTION",1999,299);

INSERT INTO BOOKS VALUES(3,"THE WHITE TIGER","ARAVIND ADIGA","FICTION",2008,399);
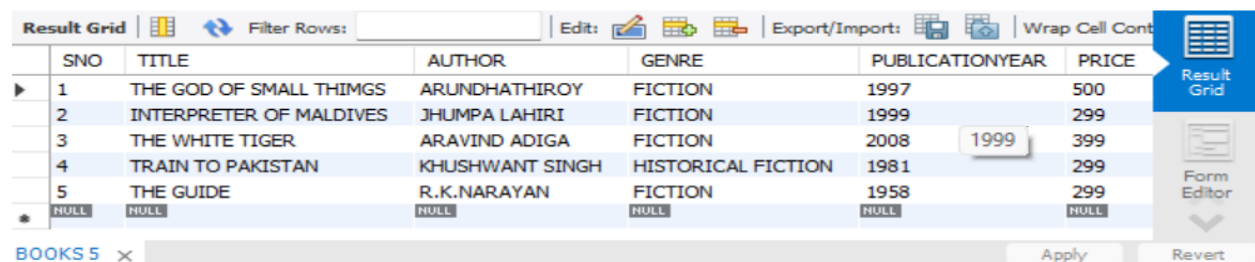
INSERT INTO BOOKS VALUES(4,"TRAIN TO PAKISTAN","KHUSHWANT SINGH","HISTORICAL FICTION",1981,299);

INSERT INTO BOOKS VALUES(5,"THE GUIDE","R.K.NARAYAN","FICTION",1958,299);

UPDATE BOOKS SET PRICE=500 WHERE SNO=1;

SELECT * FROM BOOKS;

OUTPUT:

d. Delete a book from the database based on its title.

CREATE DATABASE BOOKSDB;

USE BOOKSDB;

CREATE TABLE BOOKS(

SNO INT PRIMARY KEY,

TITLE VARCHAR(30),

AUTHOR VARCHAR(30),

GENRE VARCHAR(30),

PUBLICATIONYEAR INT,

PRICE int

);

DESCRIBE BOOKS;

INSERT INTO BOOKS VALUES(1,"THE GOD OF SMALL THIMGS","ARUNDHATHIROY","FICTION",1997,399);

INSERT INTO BOOKS VALUES(2,"INTERPRETER OF MALDIVES","JHUMPA LAHIRI","FICTION",1999,299);

INSERT INTO BOOKS VALUES(3,"THE WHITE TIGER","ARAVIND ADIGA","FICTION",2008,399);

INSERT INTO BOOKS VALUES(4,"TRAIN TO PAKISTAN","KHUSHWANT SINGH","HISTORICAL FICTION",1981,299);

INSERT INTO BOOKS VALUES(5,"THE GUIDE","R.K.NARAYAN","FICTION",1958,299);

DELETE FROM BOOKS WHERE TITLE="THE WHITE TIGER";

SELECT * FROM BOOKS;

OUTPUT:

SNO	TITLE	AUTHOR	GENRE	PUBLICATIONYEAR	PRICE
1	THE GOD OF SMALL THIMGS	ARUNDHATHIROY	FI FICTION	1997	500
2	INTERPRETER OF MALDIVES	JHUMPA LAHIRI	FICTION	1999	299
4	TRAIN TO PAKISTAN	KHUSHWANT SINGH	HISTORICAL FICTION	1981	299
5	THE GUIDE	R.K.NARAYAN	FICTION	1958	299
NULL	NULL	NULL	NULL	NULL	NULL

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