Lab Assignment 5

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mysql> **CREATE DATABASE Library\_Management\_System;**

Query OK, 1 row affected (0.10 sec)

mysql> **USE Library\_Management\_System;**

Database changed

mysql> **CREATE TABLE Customer(cust\_id INTEGER PRIMARY KEY,customer\_name VARCHAR(20),c\_email VARCHAR(100),address VARCHAR(100),phone\_no VARCHAR(10));**

Query OK, 0 rows affected (0.53 sec)

mysql> **CREATE TABLE Books(book\_id INT,title VARCHAR(50),author VARCHAR(50),price INT,ISBN\_no varchar(25));**

Query OK, 0 rows affected (0.79 sec)

mysql**> CREATE TABLE Publisher(pub\_id VARCHAR(15) PRIMARY KEY,publisher\_name VARCHAR(15),email\_id VARCHAR(100),year\_of\_publicaion DATE);**

Query OK, 0 rows affected (0.37 sec)

mysql**> CREATE TABLE Librarian(lib\_id VARCHAR(15) PRIMARY KEY,librarian\_name VARCHAR(25),phone\_no VARCHAR(10),email\_id VARCHAR(100));**

Query OK, 0 rows affected (0.41 sec)

mysql**> INSERT INTO Books VALUES(123,'Utopia','Sir Thomas Moor','500','9780140441659');**

Query OK, 1 row affected (0.06 sec)

mysql> **INSERT INTO Books VALUES(832,'Gitanjali','Rabindranath Tagore','450','9780333422175');**

Query OK, 1 row affected (0.07 sec)

mysql> **INSERT INTO Books VALUES(755,'The Discovery of India','Jawaherlal Nehru','300','9780210226292');**

Query OK, 1 row affected (0.07 sec)

mysql> **INSERT INTO Books VALUES(510,'The World as I see it','Albert Einstein','750','9783548346830');**

Query OK, 1 row affected (0.08 sec)

mysql> **INSERT INTO Books VALUES(423,'Romeo and Juliet','William Shakespeare','459','9780133556292');**

Query OK, 1 row affected (0.07 sec)

mysql> **desc Books;**

+--------------+-----------------+--------+------+-----------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+-----------------+--------+------+-----------+-------+

| book\_id | int | YES | | NULL | |

| title | varchar(50) | YES | | NULL | |

| author | varchar(50) | YES | | NULL | |

| price | int | YES | | NULL | |

| ISBN\_no | varchar(25) | YES | | NULL | |

+--------------+-----------------+--------+-------+-----------+------+

5 rows in set (0.01 sec)

mysql> **SELECT \* FROM Books;**

+---------+-------------------------------+-----------------------------+-------+------------------------+

| book\_id | title | author | price | ISBN\_no |

+---------+-------------------------------+-----------------------------+-------+------------------------+

| 123 | Utopia | Sir Thomas Moor | 500 | 9780140441659 |

| 832 | Gitanjali | Rabindranath Tagore | 450 | 9780333422175 |

| 755 | The Discovery of India | Jawaherlal Nehru | 300 | 9780210226292 |

| 510 | The World as I see it | Albert Einstein | 750 | 9783548346830 |

| 423 | Romeo and Juliet | William Shakespeare | 459 | 9780133556292 |

+---------+-------------------------------+-----------------------------+-------+------------------------+

5 rows in set (0.00 sec)

mysql> **ALTER TABLE Books ADD PRIMARY KEY (book\_id);**

Query OK, 0 rows affected (1.13 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> **desc Books;**

+--------------+---------------+--------+-------+-----------+--------+

| Field | Type | Null | Key | Default | Extra |

+-------------+----------------+--------+-------+-----------+--------+

| book\_id | int | NO | PRI | NULL | |

| title | varchar(50) | YES | | NULL | |

| author | varchar(50) | YES | | NULL | |

| price | int | YES | | NULL | |

| ISBN\_no | varchar(25) | YES | | NULL | |

+-------------+----------------+---------+------+-----------+--------+

5 rows in set (0.00 sec)

mysql> **ALTER** **TABLE Books DROP PRIMARY KEY;**

Query OK, 5 rows affected (0.97 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> **desc Books;**

+-------------+----------------+--------+------+-----------+---------+

| Field | Type | Null | Key | Default | Extra |

+-------------+----------------+--------+------+-----------+---------+

| book\_id | int | NO | | NULL | |

| title | varchar(50) | YES | | NULL | |

| author | varchar(50) | YES | | NULL | |

| price | int | YES | | NULL | |

| ISBN\_no | varchar(25) | YES | | NULL | |

+-------------+----------------+--------+------+-----------+----------+

5 rows in set (0.00 sec)

mysql> **ALTER TABLE Books ADD publisher VARCHAR(10);**

Query OK, 0 rows affected (0.24 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> **DESC Books;**

+--------------+----------------+--------+------+-----------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+----------------+--------+------+-----------+-------+

| book\_id | int | NO | | NULL | |

| title | varchar(50) | YES | | NULL | |

| author | varchar(50) | YES | | NULL | |

| price | int | YES | | NULL | |

| ISBN\_no | varchar(25) | YES | | NULL | |

| publisher | varchar(10) | YES | | NULL | |

+--------------+----------------+--------+------+-----------+-------+

6 rows in set (0.00 sec)

mysql> **Select\*From Books;**

+---------+------------------------+---------------------+-------+---------------+-----------+

| book\_id | title | author | price | ISBN\_no | publisher |

+---------+------------------------+---------------------+-------+---------------+-----------+

| 123 | Utopia | Sir Thomas Moor | 500 | 9780140441659 | NULL |

| 423 | Romeo and Juliet | William Shakespeare | 459 | 9780133556292 | NULL |

| 510 | The World as I see it | Albert Einstein | 750 | 9783548346830 | NULL |

| 755 | The Discovery of India | Jawaherlal Nehru | 300 | 9780210226292 | NULL |

| 832 | Gitanjali | Rabindranath Tagore | 450 | 9780333422175 | NULL |

+---------+------------------------+---------------------+-------+---------------+-----------+

5 rows in set (0.00 sec)

mysql> **ALTER TABLE Books RENAME COLUMN publisher TO publishers;**

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> **desc Books;**

+------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+-------------+------+-----+---------+-------+

| book\_id | int | NO | | NULL | |

| title | varchar(50) | YES | | NULL | |

| author | varchar(50) | YES | | NULL | |

| price | int | YES | | NULL | |

| ISBN\_no | varchar(25) | YES | | NULL | |

| publishers | varchar(10) | YES | | NULL | |

+------------+-------------+------+-----+---------+-------+

6 rows in set (0.00 sec)

mysql> **Select\*From Books;**

+---------+------------------------+---------------------+-------+---------------+------------+

| book\_id | title | author | price | ISBN\_no | publishers |

+---------+------------------------+---------------------+-------+---------------+------------+

| 123 | Utopia | Sir Thomas Moor | 500 | 9780140441659 | NULL |

| 423 | Romeo and Juliet | William Shakespeare | 459 | 9780133556292 | NULL |

| 510 | The World as I see it | Albert Einstein | 750 | 9783548346830 | NULL |

| 755 | The Discovery of India | Jawaherlal Nehru | 300 | 9780210226292 | NULL |

| 832 | Gitanjali | Rabindranath Tagore | 450 | 9780333422175 | NULL |

+---------+------------------------+---------------------+-------+---------------+------------+

5 rows in set (0.00 sec)

mysql> **ALTER TABLE Books DROP COLUMN Publishers**;

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> **Select\*From Books;**

+---------+------------------------+---------------------+-------+---------------+

| book\_id | title | author | price | ISBN\_no |

+---------+------------------------+---------------------+-------+---------------+

| 123 | Utopia | Sir Thomas Moor | 500 | 9780140441659 |

| 423 | Romeo and Juliet | William Shakespeare | 459 | 9780133556292 |

| 510 | The World as I see it | Albert Einstein | 750 | 9783548346830 |

| 755 | The Discovery of India | Jawaherlal Nehru | 300 | 9780210226292 |

| 832 | Gitanjali | Rabindranath Tagore | 450 | 9780333422175 |

+---------+------------------------+---------------------+-------+---------------+

5 rows in set (0.00 sec)

mysql> **desc Books;**

+---------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------+-------------+------+-----+---------+-------+

| book\_id | int | NO | | NULL | |

| title | varchar(50) | YES | | NULL | |

| author | varchar(50) | YES | | NULL | |

| price | int | YES | | NULL | |

| ISBN\_no | varchar(25) | YES | | NULL | |

+---------+-------------+------+-----+---------+-------+

5 rows in set (0.00 sec)

mysql> **ALTER TABLE Customer RENAME TO Customers;**

Query OK, 0 rows affected (0.39 sec)

mysql> **SHOW TABLES;**

+-------------------------------------------------------+

| Tables\_in\_Library\_Management\_System |

+-------------------------------------------------------+

| Books |

| Customers |

| Librarian |

| Publisher |

+-------------------------------------------------------+

4 rows in set (0.01 sec)

mysql> **CREATE TABLE Library(library\_name VARCHAR(10));**

Query OK, 0 rows affected (0.37 sec)

mysql> **DROP TABLE Library;**

Query OK, 0 rows affected (0.27 sec)

mysql> **SELECT \* FROM Publisher;**

+----------+----------------------+----------------------------+--------------------------+------+

| pub\_id | publisher\_name | email\_id | year\_of\_publicaion | bid |

+----------+----------------------+----------------------------+--------------------------+------+

| 101 | Stanford | stanford@gmail.com | 2010-12-20 | 123 |

+----------+----------------------+-----------------------------+-------------------------+------+

1 row in set (0.00 sec)

mysql> **desc Books;**

+-------------+-----------------+--------+-------+-----------+--------+

| Field | Type | Null | Key | Default | Extra |

+-------------+-----------------+--------+-------+-----------+--------+

| book\_id | int | NO | | NULL | |

| title | varchar(50) | YES | | NULL | |

| author | varchar(50) | YES | | NULL | |

| price | int | YES | | NULL | |

| ISBN\_no | varchar(25) | YES | | NULL | |

+-------------+-----------------+---------+-------+----------+--------+

5 rows in set (0.00 sec)

mysql> **ALTER TABLE Books ADD PRIMARY KEY (book\_id);**

Query OK, 0 rows affected (0.98 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> **desc Books;**

+-------------+-----------------+--------+---------+----------+---------+

| Field | Type | Null | Key | Default | Extra |

+-------------+-----------------+--------+---------+----------+---------+

| book\_id | int | NO | PRI | NULL | |

| title | varchar(50) | YES | | NULL | |

| author | varchar(50) | YES | | NULL | |

| price | int | YES | | NULL | |

| ISBN\_no | varchar(25) | YES | | NULL | |

+-------------+-----------------+--------+-------- +-----------+---------+

5 rows in set (0.00 sec)

mysql> **ALTER TABLE Publisher ADD FOREIGN KEY(bid) REFERENCES Books(book\_id);**

Query OK, 1 row affected (1.38 sec)

Records: 1 Duplicates: 0 Warnings: 0

mysql> **desc Publisher;**

+-------------------------+------------------+--------+-------+-----------+--------+

| Field | Type | Null | Key | Default | Extra |

+-------------------------+------------------+--------+-------+-----------+--------+

| pub\_id | varchar(15) | NO | PRI | NULL | |

| publisher\_name | varchar(15) | YES | | NULL | |

| email\_id | varchar(100) | YES | | NULL | |

| year\_of\_publicaion | date | YES | | NULL | |

| bid | int | YES | MUL | NULL | |

+--------------------------+------------------+--------+-------+----------+---------+

5 rows in set (0.00 sec)

mysql> **show tables;**

+-------------------------------------+

| Tables\_in\_library\_management\_system |

+-------------------------------------+

| books |

| customer |

| librarian |

| publisher |

+-------------------------------------+

4 rows in set (0.00 sec)

mysql> **drop table books , customer , librarian , publisher ;**

Query OK, 0 rows affected (0.06 sec)

mysql> **show tables;**

Empty set (0.00 sec)

mysql> **show databases ;**

+---------------------------+

| Database |

+---------------------------+

| information\_schema |

| library\_management\_system |

| mysql |

| performance\_schema |

| sys |

+---------------------------+

5 rows in set (0.00 sec)

mysql> **drop database library\_management\_system;**

Query OK, 0 rows affected (0.02 sec)

mysql> **show databases ;**

+--------------------+

| Database |

+--------------------+

| information\_schema |

| mysql |

| performance\_schema |

| sys |

+--------------------+

4 rows in set (0.00 sec)