# **Assignment-4**

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Assignment 4: Write SQL statements to CREATE a new database and tables that reflect the library schema you designed earlier. Use ALTER statements to modify the table structures and DROP statements to remove a redundant table.

### Consider the Books table:

mysql> desc books;						
Field	Туре	Null	Key	Default	Extra	
BookID   Title   ISBN   PublishedYear   Genre   AuthorID   CopiesAvailable   PublisherID	int varchar(255) varchar(13) year varchar(50) int int	NO   NO   NO   NO   YES   NO   NO   YES	PRI UNI MUL	NULL NULL NULL NULL NULL NULL NULL NULL	auto_increment	
8 rows in set (0.00 sec)						

## Modify the Books Table Structure Using ALTER:

1. Rename Column Genre to Category

```
mysql> ALTER TABLE Books
    -> CHANGE COLUMN Genre Category VARCHAR(50);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc books;
                                                      Default
                                                                 Extra
  Field
                      Type
                                       Null
                                               Key
  BookID
                      int
                                       NO
                                               PRI
                                                      NULL
                                                                 auto_increment
                      varchar(255)
  Title
                                       NO
                                                      NULL
                                               UNI
  ISBN
                      varchar(13)
                                       NO
                                                      NULL
  PublishedYear
                                       NO
                                                      NULL
                      year
                      varchar(50)
  Category
                                       YES
                                                      NULL
  AuthorID
                                               MUL
                      int
                                       NO
                                                      NULL
  CopiesAvailable
                      int
                                       NO
                                                      NULL
  PublisherID
                      int
                                       YES
                                               MUL
                                                      NULL
8 rows in set (0.00 sec)
```

### 2. Add a New Column for LastUpdated with Default Value

```
-> ADD COLUMN LastUpdated TIMESTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc books;
  Field
                                            Null | Key | Default
                       | Type
                                                                                    | Extra
   BookID
                                                     PRI |
                                                             NULL
                                                                                      auto_increment
                         varchar(255)
varchar(13)
                                                             NULL
  ISBN
PublishedYear
                                                     UNI
                                            NO
                                                             NULL
                                            NO
                                                             NULL
                         vear
                         varchar(50)
  Category
AuthorID
                                                             NULL
                                                     MUL
                         int
int
                                            NO
NO
                                                             NULL
   CopiesAvailable
                                                             NULL
  PublisherID
                                                     MUL
                                                             NULL
                                                             CURRENT_TIMESTAMP | DEFAULT_GENERATED on update CURRENT_TIMESTAMP
  LastUpdated
                         timestamp
  rows in set (0.00 sec)
```

# Drop a Publisher Table: