# Outputs of library database project

## **Creating tables**

```
mysql> DROP DATABASE IF EXISTS library;
Query OK, 9 rows affected (0.76 sec)
mysql> CREATE DATABASE library;
Query OK, 1 row affected (0.00 sec)
mysq1>
mysq1> USE  library;
Database changed
mysql>
mysql>
mysql> CREATE TABLE author
-> (
-> authorid II
-> authorname
                                      INT AUTO_INCREMENT,
VARCHAR(100),
      -> PRIMARY KEY (authorid)
-> );
Query OK, Ø rows affected (0.16 sec)
mysql>
mysql> CREATE TABLE book
     | | Chemie | |
|-> (
|-> bookid
|-> title
|-> edition
|-> authorid
                                                   INT AUTO_INCREMENT,
                                                  VARCHAR(100),
                                      INT.
                                                  INT,
      -> PRIMARY KEY (bookid),
-> FOREIGN KEY (authorid) REFERENCES author(authorid)
-> );
Query OK, Ø rows affected (0.09 sec)
mysql>
mysql> CREATE TABLE publisher
-> (
-> publisherid

publisherid
bookid
publishername
publisherdate

                                                   INT AUTO_INCREMENT,
                                                  INT,
VARCHAR(100),
                                                  DATETIME,
      -> PRIMARY KEY (publisherid),
-> FOREIGN KEY (bookid) REFERENCES book(bookid)
Query OK, 0 rows affected (0.13 sec)
mysq1>
mysql> CREATE TABLE bookcategory
      -> (
-> bookid
                                                  INT AUTO_INCREMENT,
      -> category
                                      VARCHAR(100),
      -> PRIMARY KEY (bookid),
-> FOREIGN KEY (bookid) REFERENCES book(bookid)
-> );
-> );
Query OK, Ø rows affected (0.09 sec)
mysql> CREATE TABLE booklocation
```

```
nysql> CREATE TABLE booklocation
                                            INT AUTO_INCREMENT, VARCHAR(100),
         bookid
        place
        PRIMARY KEY (bookid),
FOREIGN KEY (bookid) REFERENCES book(bookid)
Query OK, 0 rows affected (0.08 sec)
mysql> CREATE TABLE member
                                 INT AUTO_INCREMENT,
VARCHAR(100),
     ->
        memberid
        membername
        PRIMARY KEY (memberid)
-> );
Query OK, Ø rows affected (0.13 sec)
nysql>
nysq1>
nysql> CREATE TABLE issueddetails
        memberid
bookid
                                 INT.
                                            INT,
DATE,
DATE,
TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
        issuedate
        returndate
        currendate
     -> PRIMARY KEY (bookid),
-> FOREIGN KEY (bookid) REFERENCES book(bookid),
-> FOREIGN KEY (memberid) REFERENCES member(memberid)
-> >;
Query OK, 0 rows affected (0.14 sec)
nysq1>
nysq1> CREATE TABLE contact
     -> memberid-> contactty
                                 INT,
        contacttype
contactvalue
                                            VARCHAR(100),
                                            VARCHAR(100),
     -> PRIMARY KEY (memberid),
-> FOREIGN KEY (memberid) REFERENCES member(memberid)
Query OK, 0 rows affected (0.08 sec)
nysq1>
nysql>
nysql>
        CREATE TABLE bookstatus
                                 INT,
UARCHAR(100),
        bookid
        status
        PRIMARY KEY (bookid),
FOREIGN KEY (bookid) REFERENCES book(bookid)
```

## **Inserting Tables**

```
INSERT INTO bookcategory
(bookid,category)
VALUES
-> VALUES
-> (1,'Art'),
-> (2,'Business'),
-> (3,'Chick Lit'),
-> (4,'Christian'),
-> (5,'Classics'),
-> (6,'Comics'),
-> (7,'Contemporary'),
-> (8,'Cookbooks'),
-> (9,'Fiction'),
-> (10,'History');

Query OK, 10 rows affected (0.03 sec)

Records: 10 Duplicates: 0 Warnings: 0
 nysql>
nysql>
nysql>
  nysql> INSERT INTO booklocation
-> (bookid,place)
                -> VALUES
-> VALUES
-> (1,'first rack first floor'),
-> (2,'second rack first floor'),
-> (3,'third rack first floor'),
-> (4,'fourth rack first floor'),
-> (5,'fifth rack first floor'),
-> (6,'first rack second floor'),
-> (7,'second rack second floor'),
-> (8,'third rack second floor'),
-> (9,'fourth rack second floor'),
-> (10,'fifth rack second floor');
Query OK, 10 rows affected (0.05 sec)
Records: 10 Duplicates: 0 Warnings: 0
  nysql>
  nysq1>
  mysql> INSERT INTO member
                         (memberid, membername)
UALUES
-> VALUES
-> (1,'hasan'),
-> (2,'ali'),
-> (3,'mirza'),
-> (4,'mubeen'),
-> (5,'hiran'),
-> (6,'mujib'),
-> (7,'chanakya'),
-> (8,'guru'),
-> (9,'prudhvi'),
-> (10,'azar');

Query OK, 10 rows affected (0.05 sec)

Records: 10 Duplicates: 0 Warnings: 0
  nysql>
 nysql>
nysql>
                          INSERT INTO issueddetails
                          (memberid, bookid, issuedate, returndate, currendate)
VALUES
(1,1,'2016-01-23','2016-05-20','2016-05-10'),
(2,2,'2016-02-27','2016-06-01','2016-05-10'),
```

```
-> (9,'prudhvi'),
-> (10,'azar');
Query OK, 10 rows affected (0.05 sec)
Records: 10 Duplicates: 0 Warnings: 0
 mysql>
mysql>
mysql> INSERT INTO issueddetails
-> (memberid,bookid,issuedate
-> UALUES
 mysql> INSERT INTO issueddetails
-> (memberid,bookid,issuedate,returndate,currendate)
-> VALUES
-> (1,1,'2016-01-23','2016-05-20','2016-05-10'),
-> (2,2,'2016-02-27','2016-06-01','2016-05-10'),
-> (3,3,'2016-03-12','2016-04-10','2016-05-10'),
-> (4,4,'2016-04-13','2016-07-19','2016-05-10'),
-> (5,5,'2016-05-05','2016-08-06','2016-05-10'),
-> (6,6,'2016-01-04','2016-05-19','2016-05-10'),
-> (7,7,'2016-02-21','2016-06-08','2016-05-10'),
-> (8,8,'2016-03-18','2016-07-14','2016-05-10'),
-> (9,9,'2016-04-02','2016-08-22','2016-05-10');
Query OK, 10 rows affected (0.03 sec)
Records: 10 Duplicates: 0 Warnings: 0
  mysql>
  mysql>
mysql> INSERT INTO contact
                                     (memberid, contacttype, contactvalue)
-> VALUES
-> (1,'phone','4756554459'),
-> (2,'emailid','hasanam93@gmail.com'),
-> (3,'phone','2036554459'),
-> (4,'emailid','kaffa@yahoo.com'),
-> (5,'emailid','hmirz2@unh.newhaven.edu'),
-> (6,'phone','2036554461'),
-> (7,'phone','2034054467'),
-> (8,'emailid','kali2@outlook.com'),
-> (9,'phone','4756554456'),
-> (10,'emailid','jaffa1@gmail.com');
Query OK, 10 rows affected (0.05 sec)
Records: 10 Duplicates: 0 Warnings: 0
                                    VALUES
  mysql>
 mysql>
mysql> INSERT INTO bookstatus
-> (bookid.status)
-> UALUES
-> (1,'available'),
-> (2,'not available'),
-> (3,'not available'),
-> (4,'available'),
-> (5,'not available'),
-> (6,'available'),
-> (7,'available'),
-> (8,'not available'),
-> (9,'available'),
-> (10,'not available');
Query OK, 10 rows affected (0.06 sec)
Records: 10 Duplicates: 0 Warnings: 0
                     -> VALUES
  mysql>
```

### **Group By Tables**

```
mysq1> USE library;
Database changed
mysq1>
mysq1> SELECT membername
-> FROM member
-> GROUP BY membername;
                                            membername, COUNT(*)
                                       COUNT (*)
     membername
                                                               * -- -- -- -- -- -- -- -- -- --
     ali
                                                         11111111111
     azar
     chanakya
     guru
hasan
     hiran
     mirza
     mubeen
     mujib
     prudhvi
10 rows in set (0.00 sec)
mysql>
mysql> SELECT b.title,bc.category
-> FROM book b,bookcategory bc
-> WHERE b.bookid=bc.bookid
-> GROUP BY b.bookid;
     title
                                                                                                                                                                   category
    On Writing: A Memoir of the craft
Letter to a Young Poet
Bird by Bird: Some Instruction on Writing and Life
Being and Time
The Artists Way A Spiritual Path to Higher Creativity
Against the Flow The Arts, Postmodern Culture and Education
Writing Down the Bones:Freeing the Writer Within
The Age of Insight
Steppenwolf
The Elements of Style
                                                                                                                                                                       Business
Chick Lit
                                                                                                                                                                       Christian
                                                                                                                                                                       Classics
                                                                                                                                                                       Comics
                                                                                                                                                                       Contemporary
                                                                                                                                                                       Cookbooks
                                                                                                                                                                       Fiction
                                                                                                                                                                       History
10 rows in set (0.00 sec)
mysql>
mysql> SELECT
-> FROM
                                            title,bookid
          | SEDECT | CITIES, SO
|-> FROM book
|-> WHERE bookid>0
|-> ORDER BY title asc;
     title
                                                                                                                                                                       bookid
                                                                                                                                                                                          .
    Against the Flow The Arts, Postmodern Culture and Education Being and Time
Bird by Bird: Some Instruction on Writing and Life
Letter to a Young Poet
On Writing: A Memoir of the craft
Steppenwolf
The Age of Insight
The Artists Way A Spiritual Path to Higher Creativity
The Elements of Style
                                                                                                                                                                                    6432198
                                                                                                                                                                                  5
10
```

#### **Joins in Tables**

```
mysql>
mysql> USE library;
Database changed
Database on a graph of the property of the pro
      authorname
                                                                    ! title
      stephen king
                                                                    ! On Writing: A Memoir of the craft
      rainer maria rilke ! Letter to a Young Poet
                                                                    ! Bird by Bird: Some Instruction on Writing and Life
      anne lamott
      martin heidegger
                                                                    ! Being and Time
      julia cameron
                                                                    I The Artists Way A Spiritual Path to Higher Creativity
                                                                    ! Against the Flow The Arts, Postmodern Culture and Educati
      peter abbs
     natalie goldberg
                                                                    ! Writing Down the Bones:Freeing the Writer Within
      eric R.kandel
                                                                    ! The Age of Insight
      hermann hesse
                                                                    ! Steppenwolf
      william strunk Jr. | The Elements of Style
10 rows in set (0.00 sec)
mysql>
membername | contacttype | contactvalue
                                               phone
emailid
                                                                                             4756554459
      hasan
                                                                                             hasanam93@gmail.com
2036554459
     ali
      mirza
                                               phone
emailid
emailid
                                                                                             2036554461
2034054467
      mubeen
      hiran
     mujib
                                                phone
                                               phone
emailid
      chanakya
                                                                                             kali2Coutlook.com
      guru
                                                                                             4756554456
jaffa1@gmail.com
      prudhvi
                                                phone
emailid
      azar
10 rows in set (0.02 sec)
```

## **Sub Queries in Tables**

```
mysql> USE library;
Database changed
Databast changes
mysql>
mysql> SELECT issue,current,retur
-> FROM (SELECT issuedate AS issue, currendate AS current, returndate AS ret
        -> FROM Issueduces
-> WHERE retur > current;
                             FROM issueddetails) AS seedates
    issue
                             | current
                                                                               retur
                                2016-05-10 00:00:00
2016-05-10 00:00:00
2016-05-10 00:00:00
2016-05-10 00:00:00
2016-05-10 00:00:00
2016-05-10 00:00:00
2016-05-10 00:00:00
2016-05-10 00:00:00
2016-05-10 00:00:00
    2016-01-23
2016-02-27
2016-04-13
2016-05-05
2016-01-04
                                                                                  2016-05-20
2016-06-01
2016-07-19
2016-08-06
2016-05-19
    2016-02-21
2016-03-18
2016-04-02
                                                                                  2016-06-08
                                                                                  2016-07-14
2016-08-22
    2016-05-09
                                                                                  2016-09-11
    rows in set (0.00 sec)
mysql>
mysql>
mysql> SELECT title,edition
         ->
->
               FROM book
WHERE bookid IN (SELECT bookid
                                                      FROM publisher
                                                     WHERE bookid>=1);
    title
                                                                                                                                              edition :
    On Writing: A Memoir of the craft
Letter to a Young Poet
Bird by Bird: Some Instruction on Writing and Life
                                                                                                                                                            3526125425
    Bird by Bird: Some Instruction on Writing and Life
Being and Time
The Artists Way A Spiritual Path to Higher Creativity
Against the Flow The Arts, Postmodern Culture and Education
Writing Down the Bones:Freeing the Writer Within
The Age of Insight
Steppenwolf
The Elements of Style
10 rows in set (0.00 sec)
```

# **Update and Alter the table**

```
nysql> USE library;
Database changed
nysql>
nysql>
nysql> ALTER TABLE bookstatus
-> RENAME IO bookisthere;
Query OK, 0 rows affected (0.05 sec)
nysql>
nysql>
nysql>
nysql>
nysql>
nysql>
Records: 10 Duplicates: 0 Warnings: 0
nysql>
nysql> UPDATE contact
-> SET contacttype='phone'
-> WHERE memberid=1;
Query OK, 0 rows affected (0.05 sec)
Rows matched: 1 Changed: 0 Warnings: 0
nysql>
UPDATE issueddetails
-> SET issuedate='2016-01-12'
-> WHERE bookid=1;
Query OK, 1 row affected (0.06 sec)
Rows matched: 1 Changed: 1 Warnings: 0
nysql>
```