

## Group A - 3

### 1. Create Database Book

```
mysql> create database Book;  
Query OK, 1 row affected (0.04 sec)
```

```
mysql> use Book;  
Database changed
```

### 2. Create Tables Book and Book\_Author

```
mysql> create table Book(Book_ISBN varchar(20) primary key, Title varchar(20) not  
null, Publisher varchar(30), Price int(10), Date_Of_publication date);  
Query OK, 0 rows affected (0.39 sec)
```

```
mysql> desc Book;
```

Field	Type	Null	Key	Default	Extra
Book_ISBN	varchar(20)	NO	PRI	NULL	
Title	varchar(20)	NO		NULL	
Publisher	varchar(30)	YES		NULL	
Price	int(10)	YES		NULL	
Date_Of_publication	date	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> create table Book_Author(Book_ISBN varchar(20), Author_Name  
varchar(30), Author_City varchar(30) default "Pune", Phone varchar(10)  
unique, foreign key fk(Book_ISBN) references Book(Book_ISBN));  
Query OK, 0 rows affected (1.17 sec)
```

```
mysql> desc Book_Author;
```

Field	Type	Null	Key	Default	Extra
Book_ISBN	varchar(20)	YES	MUL	NULL	
Author_Name	varchar(30)	YES		NULL	
Author_City	varchar(30)	YES		Pune	
Phone	varchar(10)	YES	UNI	NULL	

4 rows in set (0.05 sec)

### 3. Insert Data into Tables

```
mysql> insert into Book value("ISBN-001", "Big Data", "Tata  
McGrawHill", 654, "2004-07-10");  
Query OK, 1 row affected (0.17 sec)
```

```
mysql> insert into Book value("ISBN-002", "MySQL Database", "Tata  
McGrawHill", 1230, "2008-02-20");  
Query OK, 1 row affected (0.11 sec)
```

```
mysql> insert into Book value("ISBN-003", "Data  
Mining", "PenticeHall", 450, "2002-05-01");  
Query OK, 1 row affected (0.08 sec)
```

```
mysql> insert into Book
value("ISBN-004","Hadoop","PenticeHall",750,"2009-12-22");
Query OK, 1 row affected (0.09 sec)

mysql> insert into Book value("ISBN-005","R-Programming","Pearson
Asia",250,"1999-03-20");
Query OK, 1 row affected (0.08 sec)

mysql> insert into Book_Author values("ISBN-001","Kevin
Loney","Mumbai",23456781);
Query OK, 1 row affected (0.08 sec)

mysql> insert into Book_Author values("ISBN-003","V.
Rajaraman","Dehli",23456782);
Query OK, 1 row affected (0.08 sec)

mysql> insert into Book_Author values("ISBN-004","Bansal
Veena","Kolkata",45672348);
Query OK, 1 row affected (0.04 sec)

mysql> insert into Book_Author values("ISBN-005","James
F.Kurose","Chennai",45672350);
Query OK, 1 row affected (0.08 sec)
```

```
mysql> select *from Book_author;
+-----+-----+-----+-----+
| Book_ISBN | Author_Name | Author_City | Phone |
+-----+-----+-----+-----+
| ISBN-001 | Kevin Loney | Mumbai | 23456781 |
| ISBN-003 | V. Rajaraman | Dehli | 23456782 |
| ISBN-004 | Bansal Veena | Kolkata | 45672348 |
| ISBN-005 | James F.Kurose | Chennai | 45672350 |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

#### 4.Adding Column to the Table

```
mysql> alter table Book add column Address varchar(60);
Query OK, 0 rows affected (1.00 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc Book;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Book_ISBN | varchar(20) | NO | PRI | NULL | |
| Title | varchar(20) | NO | | NULL | |
| Publisher | varchar(30) | YES | | NULL | |
| Price | int(10) | YES | | NULL | |
| Date_Of_publication | date | YES | | NULL | |
| Address | varchar(60) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

#### 5.update Record in Book

```
mysql> select *from Book ;
+-----+-----+-----+-----+-----+
---+-----+
| Book_ISBN | Title                | Publisher          | Price | Date_Of_publication |
| Address |
+-----+-----+-----+-----+-----+
---+-----+
| ISBN-001  | Big Data             | Tata McGrawHill   | 654   | 2004-07-10          |
NULL      |
| ISBN-002  | MySQL Database       | Tata McGrawHill   | 1230  | 2008-02-20          |
NULL      |
| ISBN-003  | Data Mining          | PenticeHall       | 450   | 2002-05-01          |
| NULL      |
| ISBN-004  | Hadoop               | PenticeHall       | 750   | 2009-12-22          |
| NULL      |
| ISBN-005  | R-Programming        | Pearson Asia      | 250   | 1999-03-20          |
| NULL      |
| ISBN-006  | Database Concepts    | Pearson Asia      | NULL  | NULL                 |
NULL      |
+-----+-----+-----+-----+-----+
---+-----+
6 rows in set (0.00 sec)
```

```
mysql> update Book set Price=780,Date_of_publication="1998-07-21" where
Book_ISBN="ISBN-006";
Query OK, 1 row affected (0.06 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select *from Book ;
+-----+-----+-----+-----+-----+
---+-----+
| Book_ISBN | Title                | Publisher          | Price | Date_Of_publication |
| Address |
+-----+-----+-----+-----+-----+
---+-----+
| ISBN-001  | Big Data             | Tata McGrawHill   | 654   | 2004-07-10          |
NULL      |
| ISBN-002  | MySQL Database       | Tata McGrawHill   | 1230  | 2008-02-20          |
NULL      |
| ISBN-003  | Data Mining          | PenticeHall       | 450   | 2002-05-01          |
| NULL      |
| ISBN-004  | Hadoop               | PenticeHall       | 750   | 2009-12-22          |
| NULL      |
| ISBN-005  | R-Programming        | Pearson Asia      | 250   | 1999-03-20          |
| NULL      |
| ISBN-006  | Database Concepts    | Pearson Asia      | 780   | 1998-07-21          |
NULL      |
+-----+-----+-----+-----+-----+
---+-----+
6 rows in set (0.00 sec)
```

```
mysql>
```

## 6.Select Book by Title

```
mysql> select *from Book where Title="Database Concepts";
```

```

+-----+-----+-----+-----+-----+
+-----+
| Book_ISBN | Title           | Publisher   | Price | Date_Of_publication | Address |
+-----+-----+-----+-----+-----+
+-----+
| ISBN-006  | Database Concepts | Pearson Asia | NULL  | NULL                | NULL    |
+-----+-----+-----+-----+-----+
+-----+
1 row in set (0.00 sec)

```

```

mysql> select *from Book where Title="Data Mining";
+-----+-----+-----+-----+-----+
+-----+
| Book_ISBN | Title           | Publisher   | Price | Date_Of_publication | Address |
+-----+-----+-----+-----+-----+
+-----+
| ISBN-003  | Data Mining     | PenticeHall | 450   | 2002-05-01          | NULL    |
+-----+-----+-----+-----+-----+
+-----+
1 row in set (0.00 sec)

```

## 7.Use Between Operator

```

mysql> select *from Book where Price between 600 and 800;
+-----+-----+-----+-----+-----+
+-----+
| Book_ISBN | Title           | Publisher   | Price | Date_Of_publication | Address |
+-----+-----+-----+-----+-----+
+-----+
| ISBN-001  | Big Data        | Tata McGrawHill | 654   | 2004-07-10          | NULL    |
| ISBN-004  | Hadoop          | PenticeHall   | 750   | 2009-12-22          | NULL    |
+-----+-----+-----+-----+-----+
+-----+
2 rows in set (0.04 sec)

```

## 8.Display Average Price

```

mysql> select avg(Price),Title from Book where Date_of_Publication between
"2000-01-01" and "2009-01-01";
+-----+-----+
| avg(Price) | Title   |
+-----+-----+
| 778.0000   | Big Data |
+-----+-----+
1 row in set (0.06 sec)

```

## 9.Select Book having Minimun Price

```

mysql> select Author_Name from Book_Author where Book_ISBN=(select Book_ISBN from
Book where Price=(select min(Price) from Book));
+-----+
| Author_Name |
+-----+

```

```

+-----+
| James F.Kurose |
+-----+
1 row in set (0.00 sec)

```

#### 10.Display name of Publisher as per no of books published by them in ascending order

```

mysql> select Publisher from Book order by Title asc;
+-----+
| Publisher      |
+-----+
| Tata McGrawHill |
| PenticeHall    |
| Pearson Asia   |
| PenticeHall    |
| Tata McGrawHill |
| Pearson Asia   |
+-----+
6 rows in set (0.04 sec)

```

#### 11.Count Number of books between specific years

```

mysql> select count(Publisher) from Book where Date_of_publication between
"2002-01-01" and curdate();
+-----+
| count(Publisher) |
+-----+
|                  4 |
+-----+
1 row in set (0.00 sec)

```

#### 12.Union of Two tables

```

mysql> select Book_ISBN,Title from Book UNION select Book_ISBN,Author_Name from
Book_Author;
+-----+-----+
| Book_ISBN | Title                |
+-----+-----+
| ISBN-001  | Big Data             |
| ISBN-002  | MySQL Database       |
| ISBN-003  | Data Mining          |
| ISBN-004  | Hadoop               |
| ISBN-005  | R-Programming        |
| ISBN-006  | Database Concepts    |
| ISBN-001  | Kevin Loney          |
| ISBN-003  | V. Rajaraman         |
| ISBN-004  | Bansal Veena         |
| ISBN-005  | James F.Kurose       |
+-----+-----+
10 rows in set (0.04 sec)

```