### Group A - 4

# 1. Create Database Book

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

### 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;

Database changed

Field	+   Type +	Null	Key	Default	Extra
Book_ISBN   Title   Publisher   Price   Date_Of_publication	<pre>varchar(20) varchar(20) varchar(30) int(10)</pre>	NO NO	•	NULL NULL NULL 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	Кеу	Default	Extra
Book_ISBN Author_Name Author_City Phone	varchar(20) varchar(30) varchar(30)	YES YES YES YES	MUL       UNI	NULL NULL Pune	 

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;

+	+   Type 	Null	Key	Default	Extra
Book_ISBN   Title   Publisher   Price   Date_Of_publication   Address	varchar(20) varchar(20) varchar(30) int(10)		PRI           	NULL NULL NULL NULL NULL	

<sup>6</sup> rows in set (0.00 sec)

### 5.Create View from Table

mysql> create view view1 as select Book\_ISBN,Title,Publisher from Book;
Query OK, 0 rows affected (0.09 sec)

mysql> create view view2 as select Title, Author\_Name, Publisher from Book, Book\_Author; Query OK, 0 rows affected (0.06 sec)

mysql> select \*from view1;

+	++	+
Book_ISBN	Title	Publisher
ISBN-001   ISBN-002   ISBN-003   ISBN-004   ISBN-005	Big Data	Tata McGrawHill   Tata McGrawHill   PenticeHall   PenticeHall   Pearson Asia

5 rows in set (0.10 sec)

mysql> select \*from view2;

+	<u> </u>	++
Title	Author_Name	Publisher
Big Data	Kevin Loney V. Rajaraman Bansal Veena James F.Kurose Kevin Loney V. Rajaraman Bansal Veena James F.Kurose Kevin Loney	Tata McGrawHill   PenticeHall   PenticeHall   PenticeHall
R-Programming	<u>-</u>	Pearson Asia
' - ' - ' '		Pearson Asia
R-Programming		Pearson Asia
R-Programming   +	James F.Kurose 	Pearson Asia 

20 rows in set (0.03 sec)

mysql> create view view3 as select \*from Book where
Date\_of\_Publication>"2014-01-01";
Query OK, 0 rows affected (0.10 sec)

mysql> select \*from view3; Empty set (0.05 sec)

### 6.Drop View

mysql> drop view view3;
Query OK, 0 rows affected (0.00 sec)

```
mysql> select *from view3;
ERROR 1146 (42S02): Table 'book.view3' doesn't exist
mysql> select *from view2;
+----+
            | Author Name | Publisher |
+----+
| Big Data | James F.Kurose | Tata McGrawHill |
| MySQL Database | Kevin Loney | Tata McGrawHill |
| MySQL Database | V. Rajaraman | Tata McGrawHill |
| MySQL Database | Bansal Veena | Tata McGrawHill |
| MySQL Database | James F.Kurose | Tata McGrawHill |
| Data Mining | Kevin Loney | PenticeHall
| Data Mining | V. Rajaraman | PenticeHall
| Data Mining | Bansal Veena | PenticeHall
| Data Mining | James F.Kurose | PenticeHall
| Hadoop
            | Kevin Loney | PenticeHall
             | V. Rajaraman | PenticeHall
| Hadoop
            | Bansal Veena | PenticeHall
| Hadoop
        | James F.Kurose | PenticeHall
| Hadoop
| R-Programming | Kevin Loney | Pearson Asia
| R-Programming | V. Rajaraman | Pearson Asia
| R-Programming | Bansal Veena | Pearson Asia
| R-Programming | James F.Kurose | Pearson Asia
+----+
20 rows in set (0.00 sec)
mysql> drop view view2;
Query OK, 0 rows affected (0.00 sec)
mysql> select *from view2;
ERROR 1146 (42S02): Table 'book.view2' doesn't exist
mysql>
7.Display View
mysql> select *from view1;
```

++		++
Book_ISBN		Publisher
ISBN-001     ISBN-002     ISBN-003     ISBN-004     ISBN-005	Big Data MySQL Database Data Mining Hadoop R-Programming	Tata McGrawHill   Tata McGrawHill   PenticeHall   PenticeHall   Pearson Asia
5 rows in set	'	++

### 8. Insert into View

mysql> insert into view1 values("ISBN-006", "Database System", "Pearson Asia"); Query OK, 1 row affected (0.05 sec)

## 9.Update View

mysql> UPDATE view1 SET Title="Database Concepts" where Book\_ISBN="ISBN-006";
Query OK, 1 row affected (0.18 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \*from view1;

++		++
Book_ISBN		Publisher
ISBN-001     ISBN-002     ISBN-003     ISBN-004     ISBN-005     ISBN-006	Big Data MySQL Database Data Mining Hadoop R-Programming Database Concepts	Tata McGrawHill     Tata McGrawHill     PenticeHall     PenticeHall     Pearson Asia     Pearson Asia
++		++

6 rows in set (0.00 sec)

### 10.Select with SubQuery

mysql> select Book\_ISBN from Book where Title=(select Title from Book where
Price=(select min(price) from Book));
+-----+
| Book\_ISBN |
+-----+
| ISBN-005 |
+-----+
1 row in set (0.00 sec)

### 11. Inner Join Between Tables

mysql> select Title from Book INNER JOIN Book\_Author On Book.Book\_ISBN=Book\_Author.Book\_ISBN;

## 12. LEFT OUTER Join (Selecting all records from table Book)

mysql> select Title from Book LEFT OUTER JOIN Book\_Author On Book.Book\_ISBN=Book\_Author.Book\_ISBN;

## 13.RIGHT OUTER Join (selecting all records from table Book Author)

mysql> select Title from Book RIGHT OUTER JOIN Book\_Author On Book.Book\_ISBN=Book\_Author.Book\_ISBN;