

## CO 226

### In class activity

E/18/397

#### Activity 1

```
mysql> create database bookshop;  
Query OK, 1 row affected (0.03 sec)
```

```
mysql> ;  
ERROR:  
No query specified
```

```
mysql> show databases;  
+-----+  
| Database |  
+-----+  
| bookshop |  
| information_schema |  
| mysql |  
| performance_schema |  
| sakila |  
| sql_hr |  
| sql_inventory |  
| sql_invoicing |  
| sql_store |  
| sys |  
| world |  
+-----+  
11 rows in set (0.00 sec)
```

```
mysql> use bookshop;  
Database changed
```

```
mysql> create table Publisher(  
-> PubID VARCHAR(6),  
-> PublisherName VARCHAR(30),  
-> RegisteredDate Date,  
-> Country VARCHAR(15),  
-> PRIMARY KEY(PubID));  
Query OK, 0 rows affected (0.12 sec)
```

```
mysql> create table Book(  
-> BookID VARCHAR(5),  
-> Title VARCHAR(50),  
-> Author VARCHAR(30),  
-> Category INT,  
-> Price FLOAT,  
-> PubID VARCHAR(6),  
-> PRIMARY KEY(BookID),  
-> FOREIGN KEY (PubID) REFERENCES Publisher(PubID));  
Query OK, 0 rows affected (0.13 sec)
```

```
mysql> show tables
```

```
-> ;
```

```
+-----+
| Tables_in_bookshop |
+-----+
| book                |
| publisher            |
+-----+
2 rows in set (0.08 sec)
```

```
mysql> desk book
```

```
-> ^C
```

```
mysql> desc book;
```

```
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| BookID     | varchar(5)    | NO   | PRI | NULL     |       |
| Title      | varchar(50)   | YES  |     | NULL     |       |
| Author     | varchar(30)   | YES  |     | NULL     |       |
| Category   | int           | YES  |     | NULL     |       |
| Price      | float         | YES  |     | NULL     |       |
| PubID      | varchar(6)    | YES  | MUL | NULL     |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.02 sec)
```

```
mysql> desc Publisher;
```

```
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| PubID          | varchar(6)    | NO   | PRI | NULL     |       |
| PublisherName  | varchar(30)   | YES  |     | NULL     |       |
| RegisteredDate | date          | YES  |     | NULL     |       |
| Country        | varchar(15)   | YES  |     | NULL     |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

## Activity 2

```
mysql> INSERT INTO Publisher
-> VALUES('Pub01', 'A.Press', '2001-05-12', 'Sri Lanka'),
-> ('Pub02', 'A.Books', '2010-03-20', 'India'),
-> ('Pub03', 'K.Brill', '2014-01-31', 'Poland'),
-> ('Pub04', 'A.Press', '2015-02-13', 'Sri Lanka');
```

Query OK, 4 rows affected (0.02 sec)

Records: 4 Duplicates: 0 Warnings: 0

```
mysql> INSERT INTO Book
-> VALUES ('B1', 'Excel', 'R. David', 2, 18.00, 'Pub02'),
-> ('B2', 'Computers', 'M. Thosmas', 4, 25.00, 'Pub02'),
-> ('B3', 'Access', 'P. Paul', 2, 30.00, 'Pub03'),
-> ('B4', 'Arts', 'W. Shiva', 1, 10.00, 'Pub04'),
-> ('B5', 'Science', 'A. Rahul', 3, 9.00, 'Pub01');
```

Query OK, 5 rows affected (0.01 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> select * from book;
```

BookID	Title	Author	Category	Price	PubID
B1	Excel	R. David	2	18	Pub02
B2	Computers	M. Thosmas	4	25	Pub02
B3	Access	P. Paul	2	30	Pub03
B4	Arts	W. Shiva	1	10	Pub04
B5	Science	A. Rahul	3	9	Pub01

5 rows in set (0.00 sec)

```
mysql> select * from publisher;
```

PubID	PublisherName	RegisteredDate	Country
Pub01	A.Press	2001-05-12	Sri Lanka
Pub02	A.Books	2010-03-20	India
Pub03	K.Brill	2014-01-31	Poland
Pub04	A.Press	2015-02-13	Sri Lanka

4 rows in set (0.00 sec)

```
mysql>
```

### Activity 3

```
mysql> select * from book;
```

BookID	Title	Author	Category	Price	PubID
B1	Excel	R. David	2	18	Pub02
B2	Computers	M. Thosmas	4	25	Pub02
B3	Access	P. Paul	2	30	Pub03
B4	Arts	W. Shiva	1	10	Pub04
B5	Science	A. Rahul	3	9	Pub01

```
5 rows in set (0.00 sec)
```

```
mysql> Select Title from book;
```

Title
Excel
Computers
Access
Arts
Science

```
5 rows in set (0.00 sec)
```

```
mysql> Select Title, Price from book;
```

Title	Price
Excel	18
Computers	25
Access	30
Arts	10
Science	9

```
5 rows in set (0.00 sec)
```

```
mysql> Select BookID, Title, Author from book;
```

BookID	Title	Author
B1	Excel	R. David
B2	Computers	M. Thosmas
B3	Access	P. Paul
B4	Arts	W. Shiva
B5	Science	A. Rahul

```
5 rows in set (0.00 sec)
```

```
mysql> select * from book where BookID = 'B2';
```

BookID	Title	Author	Category	Price	PubID
B2	Computers	M. Thosmas	4	25	Pub02

```
1 row in set (0.00 sec)
```

```
mysql> select Title from book where Price<20;
```

```
+-----+  
| Title |  
+-----+  
| Excel |  
| Arts  |  
| Science |  
+-----+
```

```
3 rows in set (0.00 sec)
```

```
mysql> select * from book where category=2;
```

```
+-----+-----+-----+-----+-----+-----+  
| BookID | Title | Author | Category | Price | PubID |  
+-----+-----+-----+-----+-----+-----+  
| B1     | Excel | R. David | 2 | 18 | Pub02 |  
| B3     | Access | P. Paul | 2 | 30 | Pub03 |  
+-----+-----+-----+-----+-----+-----+
```

```
2 rows in set (0.00 sec)
```

```
mysql>
```

#### Activity 4

```
mysql> select Title from book order by Title;
```

Title
Access
Arts
Computers
Excel
Science

```
5 rows in set (0.00 sec)
```

```
mysql> select * from book order by Price desc;
```

BookID	Title	Author	Category	Price	PubID
B3	Access	P. Paul	2	30	Pub03
B2	Computers	M. Thosmas	4	25	Pub02
B1	Excel	R. David	2	18	Pub02
B4	Arts	W. Shiva	1	10	Pub04
B5	Science	A. Rahul	3	9	Pub01

```
5 rows in set (0.00 sec)
```

```
mysql> select * from book order by Price, Title;
```

BookID	Title	Author	Category	Price	PubID
B5	Science	A. Rahul	3	9	Pub01
B4	Arts	W. Shiva	1	10	Pub04
B1	Excel	R. David	2	18	Pub02
B2	Computers	M. Thosmas	4	25	Pub02
B3	Access	P. Paul	2	30	Pub03

```
5 rows in set (0.00 sec)
```

## Activity 5

```
mysql> UPDATE book SET Category = 3 where BookID='B3';  
Query OK, 1 row affected (0.01 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from book;
```

BookID	Title	Author	Category	Price	PubID
B1	Excel	R. David	2	18	Pub02
B2	Computers	M. Thosmas	4	25	Pub02
B3	Access	P. Paul	3	30	Pub03
B4	Arts	W. Shiva	1	10	Pub04
B5	Science	A. Rahul	3	9	Pub01

5 rows in set (0.00 sec)

```
mysql> UPDATE book SET Price =Price+10 where BookID='B3';  
Query OK, 1 row affected (0.01 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from book;
```

BookID	Title	Author	Category	Price	PubID
B1	Excel	R. David	2	18	Pub02
B2	Computers	M. Thosmas	4	25	Pub02
B3	Access	P. Paul	3	40	Pub03
B4	Arts	W. Shiva	1	10	Pub04
B5	Science	A. Rahul	3	9	Pub01

5 rows in set (0.00 sec)

```
mysql> DELETE FROM book where BookID = 'B3';  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from book;
```

BookID	Title	Author	Category	Price	PubID
B1	Excel	R. David	2	18	Pub02
B2	Computers	M. Thosmas	4	25	Pub02
B4	Arts	W. Shiva	1	10	Pub04
B5	Science	A. Rahul	3	9	Pub01

4 rows in set (0.00 sec)

```
mysql> DELETE FROM book where Category=2;  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from book;
```

BookID	Title	Author	Category	Price	PubID
B2	Computers	M. Thosmas	4	25	Pub02
B4	Arts	W. Shiva	1	10	Pub04
B5	Science	A. Rahul	3	9	Pub01

```
3 rows in set (0.00 sec)
```

```
mysql>
```

```
mysql> TRUNCATE TABLE book;  
Query OK, 0 rows affected (0.10 sec)
```

```
mysql> select * from book;  
Empty set (0.04 sec)
```

```
mysql>
```