

Department of Computer Engineering
University of Peradeniya CO226-Database Systems

Lab Sheet Number : 05

Topic: Writing SQL Queries – Part I

Reg. No: E/18/397

Task 1

- Creating the database

create database E18397Lab05;

show databases;

```
mysql> create database E18397Lab05;  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> show databases;  
+-----+  
| Database  
+-----+  
| bookshop  
| chk  
| e18397lab03  
| e18397lab05  
| information_schema  
| mysql  
| performance_schema  
| sakila  
| slt  
| sql_hr  
| sql_inventory  
| sql_invoicing  
| sql_store  
| sys  
| world  
+-----+  
15 rows in set (0.00 sec)  
  
mysql>
```

Figure 01: Database created

- Creating tables

```
create table Movie(  
Mid int AUTO_INCREMENT,  
Title VARCHAR(40),  
Year int(4),  
Director VARCHAR(40),  
PRIMARY KEY (Mid)  
);
```

```
alter table Movie AUTO_INCREMENT = 101;
```

```
create table Reviewer(  
Rid int AUTO_INCREMENT,  
Name varchar(40),  
PRIMARY KEY(Rid)  
);
```

```
alter table Reviewer AUTO_INCREMENT = 201;
```

```
create table Rating(  
Rid int,  
Mid int,  
Stars int(1),  
Rdate date,  
FOREIGN KEY(Rid) REFERENCES Reviewer (Rid) ON DELETE CASCADE ON UPDATE  
CASCADE,  
FOREIGN KEY(Mid) REFERENCES Movie (Mid) ON DELETE CASCADE ON UPDATE  
CASCADE  
);
```

```
mysql> show tables;
+-----+
| Tables_in_e18397lab05 |
+-----+
| movie                  |
| rating                 |
| reviewer               |
+-----+
3 rows in set (0.00 sec)
```

```
mysql> desc movie;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| Mid        | int           | NO   | PRI | NULL    | auto_increment |
| Title      | varchar(40)   | YES  |     | NULL    |                |
| Year       | int           | YES  |     | NULL    |                |
| Director   | varchar(40)   | YES  |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)
```

```
mysql> desc reviewer;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| Rid        | int           | NO   | PRI | NULL    | auto_increment |
| Name       | varchar(40)   | YES  |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> desc rating;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| Rid        | int           | YES  | MUL | NULL    |                |
| Mid        | int           | YES  | MUL | NULL    |                |
| Stars      | int           | YES  |     | NULL    |                |
| Rdate      | date          | YES  |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

Figure 02: Tables after creating

- Adding data to the tables

insert into Movie(Title,Year,Director)

values

('Gone with the Wind',1939,'Victor Fleming'),
('Star Wars',1977,'George Lucas'),
('The Sound of Music',1965,'Robert Wise'),
('E.T.',1982,'Steven Spieibrg'),
('Titanic',1997,'James Cameron'),
('Snow White',1937,NULL),
('Avatar',2009,'James Cameron'),
('Raiders of the Lost Ark',1981,'Steven Spielberg');

insert into Reviewer(Name)

value

('Sarah Martinez'),
('Daniel Lewis'),
('Brittany Harris'),
('Mike Anderson'),
('Chris Jackson'),
('Elizabeth Thomas'),
('James Cameron'),
('Ashley White');

insert into Rating(Rid,Mid,Stars,RDate)

values

(201,101,2,'2011-01-22'),
(201,101,4,'2011-01-27'),
(202,106,4,NULL),
(203,103,2,'2011-01-20'),
(203,108,4,'2011-01-12'),
(203,108,2,'2011-01-30'),
(204,101,3,'2011-01-09'),
(205,103,3,'2011-01-27'),
(205,104,2,'2011-01-22'),
(205,108,4,NULL),
(206,107,3,'2011-01-15'),
(206,106,5,'2011-01-19'),
(207,107,5,'2011-01-20'),
(208,104,3,'2011-01-02');

```
mysql> select * from movie;
```

Mid	Title	Year	Director
101	Gone with the Wind	1939	Victor Fleming
102	Star Wars	1977	George Lucas
103	The Sound of Music	1965	Robert Wise
104	E.T.	1982	Steven Spieibrg
105	Titanic	1997	James Cameron
106	Snow White	1937	NULL
107	Avatar	2009	James Cameron
108	Raiders of the Lost Ark	1981	Steven Spielberg

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



```
mysql> select * from reviewer;
```

Rid	Name
201	Sarah Martinez
202	Daniel Lewis
203	Brittany Harris
204	Mike Anderson
205	Chris Jackson
206	Elizabeth Thomas
207	James Cameron
208	Ashley White

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



```
mysql> select * from rating;
```

Rid	Mid	Stars	Rdate
201	101	2	2011-01-22
201	101	4	2011-01-27
202	106	4	NULL
203	103	2	2011-01-20
203	108	4	2011-01-12
203	108	2	2011-01-30
204	101	3	2011-01-09
205	103	3	2011-01-27
205	104	2	2011-01-22
205	108	4	NULL
206	107	3	2011-01-15
206	106	5	2011-01-19
207	107	5	2011-01-20
208	104	3	2011-01-02

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

Figure 03: Tables after adding data

Task 2

1) select * from movie;

```
mysql> select * from movie;
+-----+-----+-----+-----+
| Mid | Title                | Year | Director          |
+-----+-----+-----+-----+
| 101 | Gone with the Wind   | 1939 | Victor Fleming    |
| 102 | Star Wars            | 1977 | George Lucas      |
| 103 | The Sound of Music   | 1965 | Robert Wise       |
| 104 | E.T.                 | 1982 | Steven Spieibrg   |
| 105 | Titanic              | 1997 | James Cameron     |
| 106 | Snow White           | 1937 | NULL              |
| 107 | Avatar               | 2009 | James Cameron     |
| 108 | Raiders of the Lost Ark | 1981 | Steven Spielberg  |
+-----+-----+-----+-----+
```

2) select * from movie where director = "James cameron";

```
mysql> select * from movie where director = "James cameron";
+-----+-----+-----+-----+
| Mid | Title  | Year | Director          |
+-----+-----+-----+-----+
| 105 | Titanic | 1997 | James Cameron     |
| 107 | Avatar  | 2009 | James Cameron     |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

3) select * from Movie where Director='James Cameron'

AND Year>=2000

```
mysql> select * from Movie where Director='James Cameron'
-> AND Year>=2000;
+-----+-----+-----+-----+
| Mid | Title  | Year | Director          |
+-----+-----+-----+-----+
| 107 | Avatar | 2009 | James Cameron     |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

4) select stars from rating;

```
mysql> select stars from rating;
+-----+
| stars |
+-----+
|      2 |
|      4 |
|      4 |
|      2 |
|      4 |
|      2 |
|      3 |
|      3 |
|      2 |
|      4 |
|      3 |
|      5 |
|      5 |
|      3 |
+-----+
14 rows in set (0.00 sec)
```

5) select distinct Stars from Rating;

```
mysql> select distinct Stars from Rating;
+-----+
| Stars |
+-----+
|      2 |
|      4 |
|      3 |
|      5 |
+-----+
4 rows in set (0.00 sec)
```

6) select Mid, Director from Movie;

```
mysql> select Mid, Director from Movie;
+-----+-----+
| Mid | Director |
+-----+-----+
| 101 | Victor Fleming |
| 102 | George Lucas |
| 103 | Robert Wise |
| 104 | Steven Spielberg |
| 105 | James Cameron |
| 106 | NULL |
| 107 | James Cameron |
| 108 | Steven Spielberg |
+-----+-----+
8 rows in set (0.00 sec)
```

7) select Mid, title, Year from Movie where director = 'Steven Spielberg';

```
mysql> select Mid, title, Year from Movie where director = 'Steven Spielberg';
+-----+-----+-----+
| Mid | title | Year |
+-----+-----+-----+
| 108 | Raiders of the Lost Ark | 1981 |
+-----+-----+-----+
1 row in set (0.00 sec)
```


8) select * from Movie,Rating;

```
mysql> select * from Movie,Rating;
```

Mid	Title	Year	Director	Rid	Mid	Stars	Rdate
108	Raiders of the Lost Ark	1981	Steven Spielberg	201	101	2	2011-01-22
107	Avatar	2009	James Cameron	201	101	2	2011-01-22
106	Snow White	1937	NULL	201	101	2	2011-01-22
105	Titanic	1997	James Cameron	201	101	2	2011-01-22
104	E.T.	1982	Steven Spieibrg	201	101	2	2011-01-22
103	The Sound of Music	1965	Robert Wise	201	101	2	2011-01-22
102	Star Wars	1977	George Lucas	201	101	2	2011-01-22
101	Gone with the Wind	1939	Victor Fleming	201	101	2	2011-01-22
108	Raiders of the Lost Ark	1981	Steven Spielberg	201	101	4	2011-01-27
107	Avatar	2009	James Cameron	201	101	4	2011-01-27
106	Snow White	1937	NULL	201	101	4	2011-01-27
105	Titanic	1997	James Cameron	201	101	4	2011-01-27
104	E.T.	1982	Steven Spieibrg	201	101	4	2011-01-27
103	The Sound of Music	1965	Robert Wise	201	101	4	2011-01-27
102	Star Wars	1977	George Lucas	201	101	4	2011-01-27
101	Gone with the Wind	1939	Victor Fleming	201	101	4	2011-01-27
108	Raiders of the Lost Ark	1981	Steven Spielberg	202	106	4	NULL
107	Avatar	2009	James Cameron	202	106	4	NULL
106	Snow White	1937	NULL	202	106	4	NULL
105	Titanic	1997	James Cameron	202	106	4	NULL
104	E.T.	1982	Steven Spieibrg	202	106	4	NULL
103	The Sound of Music	1965	Robert Wise	202	106	4	NULL
102	Star Wars	1977	George Lucas	202	106	4	NULL
101	Gone with the Wind	1939	Victor Fleming	202	106	4	NULL
108	Raiders of the Lost Ark	1981	Steven Spielberg	203	103	2	2011-01-20
107	Avatar	2009	James Cameron	203	103	2	2011-01-20
106	Snow White	1937	NULL	203	103	2	2011-01-20
105	Titanic	1997	James Cameron	203	103	2	2011-01-20
104	E.T.	1982	Steven Spieibrg	203	103	2	2011-01-20
103	The Sound of Music	1965	Robert Wise	203	103	2	2011-01-20
102	Star Wars	1977	George Lucas	203	103	2	2011-01-20
101	Gone with the Wind	1939	Victor Fleming	203	103	2	2011-01-20
108	Raiders of the Lost Ark	1981	Steven Spielberg	203	108	4	2011-01-12
107	Avatar	2009	James Cameron	203	108	4	2011-01-12
106	Snow White	1937	NULL	203	108	4	2011-01-12

107	Avatar	2009	James Cameron	205	108	4	NULL
106	Snow White	1937	NULL	205	108	4	NULL
105	Titanic	1997	James Cameron	205	108	4	NULL
104	E.T.	1982	Steven Spieibrg	205	108	4	NULL
103	The Sound of Music	1965	Robert Wise	205	108	4	NULL
102	Star Wars	1977	George Lucas	205	108	4	NULL
101	Gone with the Wind	1939	Victor Fleming	205	108	4	NULL
108	Raiders of the Lost Ark	1981	Steven Spielberg	206	107	3	2011-01-15
107	Avatar	2009	James Cameron	206	107	3	2011-01-15
106	Snow White	1937	NULL	206	107	3	2011-01-15
105	Titanic	1997	James Cameron	206	107	3	2011-01-15
104	E.T.	1982	Steven Spieibrg	206	107	3	2011-01-15
103	The Sound of Music	1965	Robert Wise	206	107	3	2011-01-15
102	Star Wars	1977	George Lucas	206	107	3	2011-01-15
101	Gone with the Wind	1939	Victor Fleming	206	107	3	2011-01-15
108	Raiders of the Lost Ark	1981	Steven Spielberg	206	106	5	2011-01-19
107	Avatar	2009	James Cameron	206	106	5	2011-01-19
106	Snow White	1937	NULL	206	106	5	2011-01-19
105	Titanic	1997	James Cameron	206	106	5	2011-01-19
104	E.T.	1982	Steven Spieibrg	206	106	5	2011-01-19
103	The Sound of Music	1965	Robert Wise	206	106	5	2011-01-19
102	Star Wars	1977	George Lucas	206	106	5	2011-01-19
101	Gone with the Wind	1939	Victor Fleming	206	106	5	2011-01-19
108	Raiders of the Lost Ark	1981	Steven Spielberg	207	107	5	2011-01-20
107	Avatar	2009	James Cameron	207	107	5	2011-01-20
106	Snow White	1937	NULL	207	107	5	2011-01-20
105	Titanic	1997	James Cameron	207	107	5	2011-01-20
104	E.T.	1982	Steven Spieibrg	207	107	5	2011-01-20
103	The Sound of Music	1965	Robert Wise	207	107	5	2011-01-20
102	Star Wars	1977	George Lucas	207	107	5	2011-01-20
101	Gone with the Wind	1939	Victor Fleming	207	107	5	2011-01-20
108	Raiders of the Lost Ark	1981	Steven Spielberg	208	104	3	2011-01-02
107	Avatar	2009	James Cameron	208	104	3	2011-01-02
106	Snow White	1937	NULL	208	104	3	2011-01-02
105	Titanic	1997	James Cameron	208	104	3	2011-01-02
104	E.T.	1982	Steven Spieibrg	208	104	3	2011-01-02
103	The Sound of Music	1965	Robert Wise	208	104	3	2011-01-02
102	Star Wars	1977	George Lucas	208	104	3	2011-01-02
101	Gone with the Wind	1939	Victor Fleming	208	104	3	2011-01-02

112 rows in set (0.00 sec)

9) select a.Mid, a.Title,b.MId,b.RId,b.Stars from Movie a,Rating b;

```
mysql> select a.Mid, a.Title,b.MId,b.RId,b.Stars from Movie a,Rating b;
```

Mid	Title	MId	RId	Stars
108	Raiders of the Lost Ark	101	201	2
107	Avatar	101	201	2
106	Snow White	101	201	2
105	Titanic	101	201	2
104	E.T.	101	201	2
103	The Sound of Music	101	201	2
102	Star Wars	101	201	2
101	Gone with the Wind	101	201	2
108	Raiders of the Lost Ark	101	201	4
107	Avatar	101	201	4
106	Snow White	101	201	4
105	Titanic	101	201	4
104	E.T.	101	201	4
103	The Sound of Music	101	201	4
102	Star Wars	101	201	4
101	Gone with the Wind	101	201	4
108	Raiders of the Lost Ark	106	202	4
107	Avatar	106	202	4
106	Snow White	106	202	4
105	Titanic	106	202	4
104	E.T.	106	202	4
103	The Sound of Music	106	202	4
102	Star Wars	106	202	4
101	Gone with the Wind	106	202	4
108	Raiders of the Lost Ark	103	203	2
107	Avatar	103	203	2
106	Snow White	103	203	2
105	Titanic	103	203	2
104	E.T.	103	203	2
103	The Sound of Music	103	203	2
102	Star Wars	103	203	2
101	Gone with the Wind	103	203	2
108	Raiders of the Lost Ark	108	203	4
107	Avatar	108	203	4
106	Snow White	108	203	4

102	Star Wars	108	205	4
101	Gone with the Wind	108	205	4
108	Raiders of the Lost Ark	107	206	3
107	Avatar	107	206	3
106	Snow White	107	206	3
105	Titanic	107	206	3
104	E.T.	107	206	3
103	The Sound of Music	107	206	3
102	Star Wars	107	206	3
101	Gone with the Wind	107	206	3
108	Raiders of the Lost Ark	106	206	5
107	Avatar	106	206	5
106	Snow White	106	206	5
105	Titanic	106	206	5
104	E.T.	106	206	5
103	The Sound of Music	106	206	5
102	Star Wars	106	206	5
101	Gone with the Wind	106	206	5
108	Raiders of the Lost Ark	107	207	5
107	Avatar	107	207	5
106	Snow White	107	207	5
105	Titanic	107	207	5
104	E.T.	107	207	5
103	The Sound of Music	107	207	5
102	Star Wars	107	207	5
101	Gone with the Wind	107	207	5
108	Raiders of the Lost Ark	104	208	3
107	Avatar	104	208	3
106	Snow White	104	208	3
105	Titanic	104	208	3
104	E.T.	104	208	3
103	The Sound of Music	104	208	3
102	Star Wars	104	208	3
101	Gone with the Wind	104	208	3

112 rows in set (0.00 sec)

10) select a.Mid, a.Title,b.RId,b.Stars from Movie a,Rating b where a.Mid = b.Mid;

```
mysql> select a.Mid, a.Title,b.RId,b.Stars from Movie a,Rating b where a.Mid = B.Mid;
```

Mid	Title	RId	Stars
101	Gone with the Wind	201	2
101	Gone with the Wind	201	4
101	Gone with the Wind	204	3
103	The Sound of Music	203	2
103	The Sound of Music	205	3
104	E.T.	205	2
104	E.T.	208	3
106	Snow White	202	4
106	Snow White	206	5
107	Avatar	206	3
107	Avatar	207	5
108	Raiders of the Lost Ark	203	4
108	Raiders of the Lost Ark	203	2
108	Raiders of the Lost Ark	205	4

14 rows in set (0.00 sec)

11) select a.Mid, a.Title,b.RId,b.Stars from Movie a,Rating b where a.Mid = b.Mid and b.stars<=3;

```
mysql> select a.Mid, a.Title,b.RId,b.Stars from Movie a,Rating b where a.Mid = b.Mid and b.stars<=3;
```

Mid	Title	RId	Stars
101	Gone with the Wind	201	2
103	The Sound of Music	203	2
108	Raiders of the Lost Ark	203	2
101	Gone with the Wind	204	3
103	The Sound of Music	205	3
104	E.T.	205	2
107	Avatar	206	3
104	E.T.	208	3

8 rows in set (0.00 sec)

12) select a.Mid, a.Title,b.RId,b.Stars from Movie a,Rating b where a.Mid = b.Mid and b.stars>=2 and b.stars<=4;

```
mysql> select a.Mid, a.Title,b.RId,b.Stars from Movie a,Rating b where a.Mid = b.Mid and b.stars>=2 and b.stars<=4;
```

Mid	Title	RId	Stars
101	Gone with the Wind	201	2
101	Gone with the Wind	201	4
106	Snow White	202	4
103	The Sound of Music	203	2
108	Raiders of the Lost Ark	203	4
108	Raiders of the Lost Ark	203	2
101	Gone with the Wind	204	3
103	The Sound of Music	205	3
104	E.T.	205	2
108	Raiders of the Lost Ark	205	4
107	Avatar	206	3
104	E.T.	208	3

12 rows in set (0.00 sec)

13) select Rid, Mid from Rating;

```
mysql> select Rid, Mid from Rating;
+-----+-----+
| Rid  | Mid  |
+-----+-----+
| 201  | 101  |
| 201  | 101  |
| 202  | 106  |
| 203  | 103  |
| 203  | 108  |
| 203  | 108  |
| 204  | 101  |
| 205  | 103  |
| 205  | 104  |
| 205  | 108  |
| 206  | 107  |
| 206  | 106  |
| 207  | 107  |
| 208  | 104  |
+-----+-----+
14 rows in set (0.00 sec)
```

14) select distinct Rid, Mid from Rating;

```
mysql> select distinct Rid, Mid from Rating;
+-----+-----+
| Rid  | Mid  |
+-----+-----+
| 201  | 101  |
| 202  | 106  |
| 203  | 103  |
| 203  | 108  |
| 204  | 101  |
| 205  | 103  |
| 205  | 104  |
| 205  | 108  |
| 206  | 107  |
| 206  | 106  |
| 207  | 107  |
| 208  | 104  |
+-----+-----+
12 rows in set (0.00 sec)
```

15) select a.Mid, a.Title,b.Rid, c.name, b.Stars from Movie a,Rating b, Reviewer c where a.Mid = b.Mid and b.Rid = c.Rid;

```
mysql> select a.Mid, a.Title,b.Rid, c.name, b.Stars from Movie a,Rating b, Reviewer c where a.Mid = b.Mid and b.Rid = c.Rid;
```

Mid	Title	Rid	name	Stars
101	Gone with the Wind	201	Sarah Martinez	2
101	Gone with the Wind	201	Sarah Martinez	4
101	Gone with the Wind	204	Mike Anderson	3
103	The Sound of Music	203	Brittany Harris	2
103	The Sound of Music	205	Chris Jackson	3
104	E.T.	205	Chris Jackson	2
104	E.T.	208	Ashley White	3
106	Snow White	202	Daniel Lewis	4
106	Snow White	206	Elizabeth Thomas	5
107	Avatar	206	Elizabeth Thomas	3
107	Avatar	207	James Cameron	5
108	Raiders of the Lost Ark	203	Brittany Harris	4
108	Raiders of the Lost Ark	203	Brittany Harris	2
108	Raiders of the Lost Ark	205	Chris Jackson	4

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

16) select a.Mid, a.Title,b.Rid, c.name, b.Stars from Movie a,Rating b, Reviewer c where a.Mid = b.Mid and b.Rid = c.Rid and b.stars =5;

```
mysql> select a.Mid, a.Title,b.Rid, c.name, b.Stars from Movie a,Rating b, Reviewer c where a.Mid = b.Mid and b.Rid = c.Rid and b.stars =5;
```

Mid	Title	Rid	name	Stars
106	Snow White	206	Elizabeth Thomas	5
107	Avatar	207	James Cameron	5

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

17) select a.Title, c.name, b.Stars from Movie a,Rating b, Reviewer c where a.Mid = b.Mid and b.Rid = c.Rid and b.Rdate is NULL ;

```
mysql> select a.Title, c.name, b.Stars from Movie a,Rating b, Reviewer c where a.Mid = b.Mid and b.Rid = c.Rid and b.Rdate is NULL ;
```

Title	name	Stars
Snow White	Daniel Lewis	4
Raiders of the Lost Ark	Chris Jackson	4

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

18) (select Director from Movie where Director is NOT NULL) UNION

(select Name from Reviewer where Name is NOT NULL);

```
mysql> (select Director from Movie where Director is NOT NULL)
-> UNION
-> (select Name from Reviewer where Name is NOT NULL);
+-----+
| Director |
+-----+
| Victor Fleming |
| George Lucas |
| Robert Wise |
| Steven Spieibrg |
| James Cameron |
| Steven Spielberg |
| Sarah Martinez |
| Daniel Lewis |
| Brittany Harris |
| Mike Anderson |
| Chris Jackson |
| Elizabeth Thomas |
| Ashley White |
+-----+
13 rows in set (0.00 sec)
```

19) select * from Reviewer where Name LIKE '%Martinez%';

```
mysql> select * from Reviewer where Name LIKE '%Martinez%';
+-----+
| Rid | Name |
+-----+
| 201 | Sarah Martinez |
+-----+
1 row in set (0.01 sec)
```

20) select * from rating where RDate LIKE '____-__-0_';

```
mysql> select * from rating where RDate LIKE '____-__-0_';
+-----+
| Rid | Mid | Stars | Rdate |
+-----+
| 204 | 101 | 3 | 2011-01-09 |
| 208 | 104 | 3 | 2011-01-02 |
+-----+
2 rows in set (0.00 sec)
```

21) select * from rating where RDate < '2011-01-10';

```
mysql> select * from rating where RDate < '2011-01-10';
+-----+-----+-----+-----+
| Rid  | Mid  | Stars | Rdate      |
+-----+-----+-----+-----+
| 204  | 101  | 3     | 2011-01-09 |
| 208  | 104  | 3     | 2011-01-02 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

22) update Rating set Stars = Stars+1 where Rid=203;

select Rid,Mid,Stars from Rating where Rid=203;

```
mysql> update Rating set Stars = Stars+1 where Rid=203;
Query OK, 3 rows affected (0.01 sec)
Rows matched: 3  Changed: 3  Warnings: 0

mysql> select Rid,Mid,Stars from Rating where Rid=203;
+-----+-----+-----+
| Rid  | Mid  | Stars |
+-----+-----+-----+
| 203  | 103  | 3     |
| 203  | 108  | 5     |
| 203  | 108  | 3     |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

23) select a.Title, b.Name, c.Stars from Movie a, Reviewer b, Rating c where a.Mid = c.Mid and B.Rid = c.Rid ORDER BY a.Title;

```
mysql> select a.Title, b.Name, c.Stars from Movie a, Reviewer b, Rating c where a.Mid = c.Mid and B.Rid = c.Rid ORDER BY a.Title;
+-----+-----+-----+
| Title          | Name           | Stars |
+-----+-----+-----+
| Avatar         | Elizabeth Thomas | 3     |
| Avatar         | James Cameron   | 5     |
| E.T.           | Chris Jackson   | 2     |
| E.T.           | Ashley White    | 3     |
| Gone with the Wind | Sarah Martinez  | 2     |
| Gone with the Wind | Sarah Martinez  | 4     |
| Gone with the Wind | Mike Anderson   | 3     |
| Raiders of the Lost Ark | Brittany Harris | 5     |
| Raiders of the Lost Ark | Brittany Harris | 3     |
| Raiders of the Lost Ark | Chris Jackson   | 4     |
| Snow White     | Daniel Lewis    | 4     |
| Snow White     | Elizabeth Thomas | 5     |
| The Sound of Music | Brittany Harris | 3     |
| The Sound of Music | Chris Jackson   | 3     |
+-----+-----+-----+
14 rows in set (0.00 sec)
```

24) select a.Title, c.Stars, c.Rdate from Movie a, Rating c where a.Mid = c.Mid ORDER BY a.Title;

select a.Title, c.Stars, c.Rdate from Movie a, Rating c where a.Mid = c.Mid ORDER BY c.Stars DESC;

select a.Title, c.Stars, c.Rdate from Movie a, Rating c where a.Mid = c.Mid ORDER BY c.Rdate DESC;

```
mysql> select a.Title, c.Stars, c.Rdate from Movie a, Rating c where a.Mid = c.Mid ORDER BY a.Title;
```

Title	Stars	Rdate
Avatar	3	2011-01-15
Avatar	5	2011-01-20
E.T.	2	2011-01-22
E.T.	3	2011-01-02
Gone with the Wind	2	2011-01-22
Gone with the Wind	4	2011-01-27
Gone with the Wind	3	2011-01-09
Raiders of the Lost Ark	5	2011-01-12
Raiders of the Lost Ark	3	2011-01-30
Raiders of the Lost Ark	4	NULL
Snow White	4	NULL
Snow White	5	2011-01-19
The Sound of Music	3	2011-01-20
The Sound of Music	3	2011-01-27

14 rows in set (0.00 sec)

```
mysql> select a.Title, c.Stars, c.Rdate from Movie a, Rating c where a.Mid = c.Mid ORDER BY c.Stars DESC;
```

Title	Stars	Rdate
Snow White	5	2011-01-19
Avatar	5	2011-01-20
Raiders of the Lost Ark	5	2011-01-12
Gone with the Wind	4	2011-01-27
Snow White	4	NULL
Raiders of the Lost Ark	4	NULL
Gone with the Wind	3	2011-01-09
The Sound of Music	3	2011-01-20
The Sound of Music	3	2011-01-27
E.T.	3	2011-01-02
Avatar	3	2011-01-15
Raiders of the Lost Ark	3	2011-01-30
Gone with the Wind	2	2011-01-22
E.T.	2	2011-01-22


```
mysql> select a.Title, c.Stars, c.Rdate from Movie a, Rating c where a.Mid = c.Mid ORDER BY c.Rdate DESC;
```

Title	Stars	Rdate
Raiders of the Lost Ark	3	2011-01-30
Gone with the Wind	4	2011-01-27
The Sound of Music	3	2011-01-27
Gone with the Wind	2	2011-01-22
E.T.	2	2011-01-22
The Sound of Music	3	2011-01-20
Avatar	5	2011-01-20
Snow White	5	2011-01-19
Avatar	3	2011-01-15
Raiders of the Lost Ark	5	2011-01-12
Gone with the Wind	3	2011-01-09
E.T.	3	2011-01-02
Snow White	4	NULL
Raiders of the Lost Ark	4	NULL

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

25) select * from Movie where Director in (select Name from Reviewer);

```
mysql> select * from Movie where Director in
-> (select Name from Reviewer);
```

Mid	Title	Year	Director
105	Titanic	1997	James Cameron
107	Avatar	2009	James Cameron

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