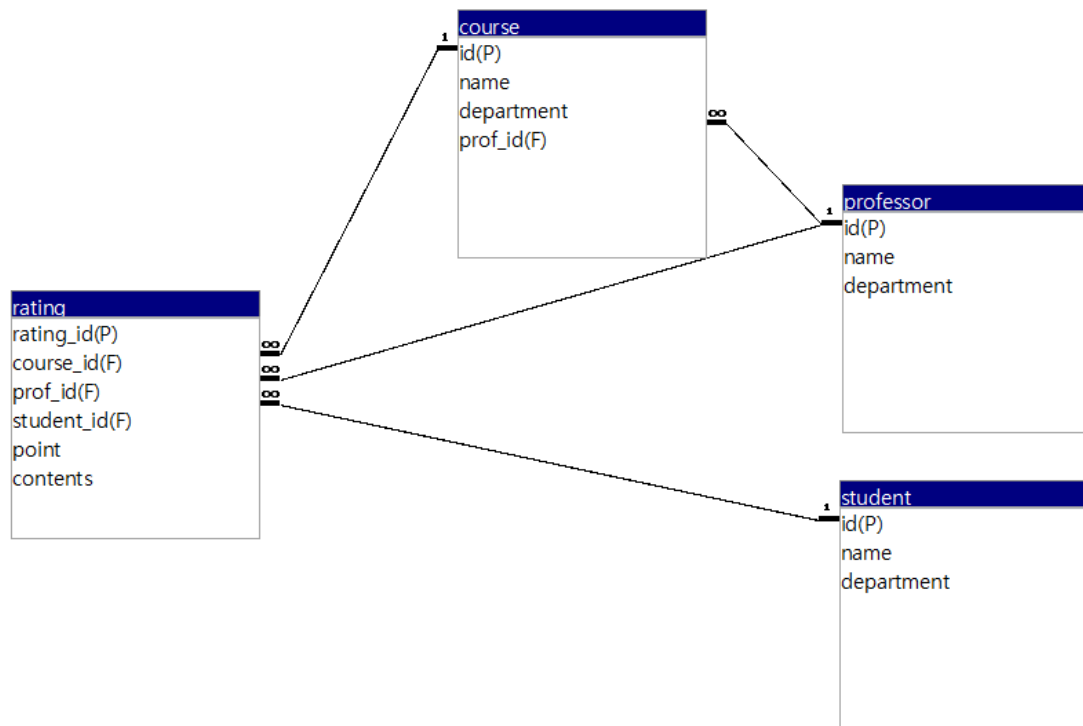


# Database (02) Project Report

Team SQLsamurai

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## 1. ER Diagram of database schema



## Table Descriptions:

### Professor Table:

Columns: id (varchar(3)), name (varchar(100)), department (varchar(200))

Key: id (PRIMARY KEY)

Index: id

### Course Table:

Columns: id (varchar(6)), title (varchar(200)), department (varchar(200)), prof\_id (varchar(3))

Key: id (PRIMARY KEY)

Foreign Key: prof\_id (REFERENCES professor(id))

Index: id

#### **Student Table:**

Columns: id (varchar(7)), name (varchar(200)), department (varchar(200))

Key: id (PRIMARY KEY)

Index: id

#### **Rating Table:**

Columns: rating\_id (int AUTO\_INCREMENT), course\_id (varchar(6)), prof\_id (varchar(3)), student\_id (varchar(7)), point (numeric(3,2)), contents (varchar(1000))

Key: rating\_id (PRIMARY KEY)

Foreign Keys: course\_id (REFERENCES course(id)), prof\_id (REFERENCES professor(id)), student\_id (REFERENCES student(id))

#### **Table Relationships:**

##### **Course-Rating Relationship:**

The Course table and the Rating table have a one-to-many relationship.

One course can have multiple ratings, but each rating belongs to only one course.

This relationship is represented by the course\_id column in the Rating table, which references the id column in the Course table.

##### **Course-Professor Relationship:**

The Course table and the Professor table have a one-to-many relationship.

One course is taught by only one professor, but each professor can teach multiple courses.

This relationship is represented by the prof\_id column in the Course table, which references the id column in the Professor table.

##### **Professor-Rating Relationship:**

The Professor table and the Rating table have a one-to-many relationship.

One professor can receive multiple ratings, but each rating is associated with only one professor.

This relationship is represented by the `prof_id` column in the Rating table, which references the `id` column in the Professor table.

### Student-Rating Relationship:

The Student table and the Rating table have a one-to-many relationship.

One student can provide multiple ratings, but each rating is associated with only one student.

This relationship is represented by the `student_id` column in the Rating table, which references the `id` column in the Student table.

## 2. simple Java code structure explanation

classes

```
class User
func User
func getName
func setName
func getNumber
func setNumber
```

### User Class for User Creation

`getName` and `getNumber`:

receive the user's name and student number as input

`setName` and `setNumber`:

set the user's name and student number

`User` creates a new User object with name and number

```
class Welcome
func main
func menuIntroduction
func menuGuestInfo
func searchECE
func searchCourse
func searchContents
func searchAverageRating
func modifyECE
func insertECE
func deleteECE
func menuExit
```

### Welcome Class for the use of course evaluation system

`main`: method of executing full program

`menuIntroduction`: method of printing menu description

`menuGuestInfo`: method of printing current user

`searchECE`: method of searching for lecture evaluation

`searchCourse`: method of searching for lecture evaluation by lecture name and professor name

`searchContents`: method of searching for lecture evaluations by lecture content

`searchAverageRating`: method for searching the average lecture evaluation of a lecture

[modifyECE](#): method of modifying lecture evaluations

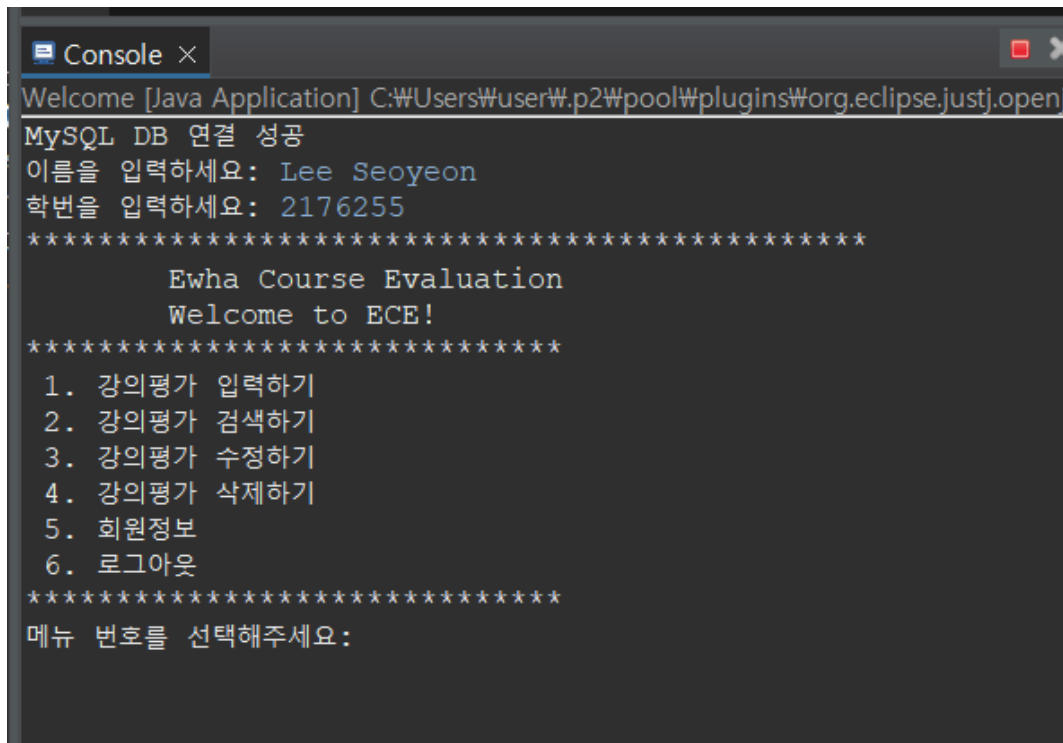
[insertECE](#): method of inputting lecture evaluations

[deleteECE](#): method of deleting lecture evaluations

[menuExit](#): method of logout and closing sql

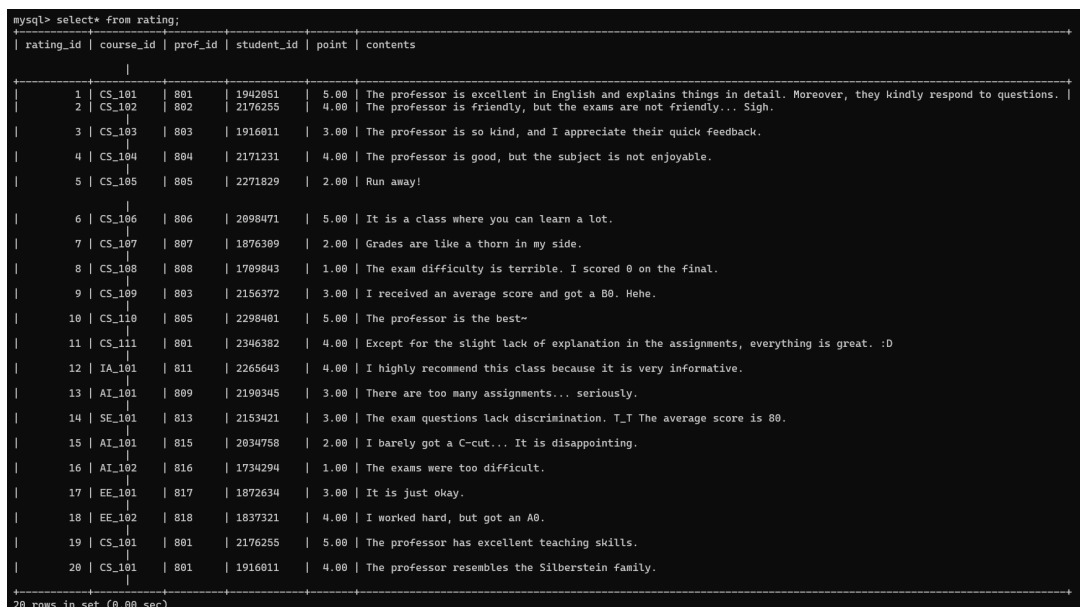
### 3. screen capture of execution result for each menu

#### 1) Log in



```
Console x
Welcome [Java Application] C:\Users\User\p2\pool\plugins\org.eclipse.justj.open
MySQL DB 연결 성공
이름을 입력하세요: Lee Seoyeon
학번을 입력하세요: 2176255
*****
                Ewha Course Evaluation
                Welcome to ECE!
*****
1. 강의평가 입력하기
2. 강의평가 검색하기
3. 강의평가 수정하기
4. 강의평가 삭제하기
5. 회원정보
6. 로그아웃
*****
메뉴 번호를 선택해주세요:
```

#### 2) Rating table before inserting a lecture evaluation



```
mysql> select* from rating;
+-----+-----+-----+-----+-----+-----+
| rating_id | course_id | prof_id | student_id | point | contents |
+-----+-----+-----+-----+-----+-----+
| 1 | CS_101 | 801 | 1942051 | 5.00 | The professor is excellent in English and explains things in detail. Moreover, they kindly respond to questions. |
| 2 | CS_102 | 802 | 2176255 | 4.00 | The professor is friendly, but the exams are not friendly... Sigh. |
| 3 | CS_103 | 803 | 1916011 | 3.00 | The professor is so kind, and I appreciate their quick feedback. |
| 4 | CS_104 | 804 | 2171231 | 4.00 | The professor is good, but the subject is not enjoyable. |
| 5 | CS_105 | 805 | 2271829 | 2.00 | Run away! |
| 6 | CS_106 | 806 | 2098471 | 5.00 | It is a class where you can learn a lot. |
| 7 | CS_107 | 807 | 1876389 | 2.00 | Grades are like a thorn in my side. |
| 8 | CS_108 | 808 | 1709843 | 1.00 | The exam difficulty is terrible. I scored 0 on the final. |
| 9 | CS_109 | 803 | 2156372 | 3.00 | I received an average score and got a B0. Hehe. |
| 10 | CS_110 | 805 | 2298401 | 5.00 | The professor is the best~ |
| 11 | CS_111 | 801 | 2346382 | 4.00 | Except for the slight lack of explanation in the assignments, everything is great. :D |
| 12 | IA_101 | 811 | 2265643 | 4.00 | I highly recommend this class because it is very informative. |
| 13 | AI_101 | 809 | 2190345 | 3.00 | There are too many assignments... seriously. |
| 14 | SE_101 | 813 | 2153421 | 3.00 | The exam questions lack discrimination. T_T The average score is 80. |
| 15 | AI_101 | 815 | 2034758 | 2.00 | I barely got a C-cut... It is disappointing. |
| 16 | AI_102 | 816 | 1734294 | 1.00 | The exams were too difficult. |
| 17 | EE_101 | 817 | 1872634 | 3.00 | It is just okay. |
| 18 | EE_102 | 818 | 1837321 | 4.00 | I worked hard, but got an A0. |
| 19 | CS_101 | 801 | 2176255 | 5.00 | The professor has excellent teaching skills. |
| 20 | CS_101 | 801 | 1916011 | 4.00 | The professor resembles the Silberstein family. |
+-----+-----+-----+-----+-----+-----+
20 rows in set (0.00 sec)
```

### 3) inserting a lecture evaluation

```

*****
Ewha Course Evaluation
Welcome to ECE!
*****
1. 강의평가 입력하기
2. 강의평가 검색하기
3. 강의평가 수정하기
4. 강의평가 삭제하기
5. 회원정보
6. 로그아웃
*****
메뉴 번호를 선택해주세요: 1
<< 강의 목록 >>
강의 ID: AI_101, 강의명: Pattern Recognition, 교수: Yunjung Choi
강의 ID: AI_102, 강의명: AI Programming, 교수: Dongbo Min
강의 ID: CB_101, 강의명: Introduction to Cyber Security, 교수: Jinwook Kwon
강의 ID: CS_101, 강의명: Database, 교수: Minsoo Lee
강의 ID: CS_102, 강의명: Database, 교수: Hyungjoon Lee
강의 ID: CS_103, 강의명: Capstone Design and Entrepreneurship Project, 교수: Jaehyung Shim
강의 ID: CS_104, 강의명: Operating Systems, 교수: Hyunsu Kim
강의 ID: CS_105, 강의명: Software Engineering, 교수: Sookyoung Lee
강의 ID: CS_106, 강의명: Information and Communication Engineering, 교수: Myungguk Yoon
강의 ID: CS_107, 강의명: Discrete Mathematics, 교수: Youngrok Song
강의 ID: CS_108, 강의명: Computer Networks, 교수: Kyuhong Kim
강의 ID: CS_109, 강의명: Data Structures, 교수: Jaehyung Shim
강의 ID: CS_110, 강의명: Computer Architecture, 교수: Sookyoung Lee
강의 ID: CS_111, 강의명: Computer Algorithms, 교수: Minsoo Lee
강의 ID: EE_101, 강의명: Integrated Circuit Design, 교수: Inki Lee
강의 ID: EE_102, 강의명: Integrated Circuit Design, 교수: Dongsung Kim
강의 ID: EE_103, 강의명: Comprehensive Design in Electronic Engineering, 교수: Byungju Choi
강의 ID: EE_104, 강의명: Electronic Circuit Experiment, 교수: Sookhee Yang
강의 ID: IA_101, 강의명: Introduction to International Affairs, 교수: Jihyun Park
강의 ID: SE_101, 강의명: Introduction to Social Science Education, 교수: Yuran Oh
평가하고 싶은 강의 ID를 입력하세요: EE_104
강의 평점을 입력하세요: 3
강의평 내용을 입력하세요: good
강의평이 성공적으로 추가되었습니다.

```

### 4) rating table after inserting a lecture evaluation

```

mysql> select* from rating;
+-----+-----+-----+-----+-----+-----+
| rating_id | course_id | prof_id | student_id | point | contents |
+-----+-----+-----+-----+-----+-----+
| 1 | CS_101 | 801 | 1942051 | 5.00 | The professor is excellent in English and explains things in detail. Moreover, they kindly respond to questions. |
| 2 | CS_102 | 802 | 2176255 | 4.00 | The professor is friendly, but the exams are not friendly... Sigh. |
| 3 | CS_103 | 803 | 1916811 | 3.00 | The professor is so kind, and I appreciate their quick feedback. |
| 4 | CS_104 | 804 | 2171231 | 4.00 | The professor is good, but the subject is not enjoyable. |
| 5 | CS_105 | 805 | 2271829 | 2.00 | Run away! |
| 6 | CS_106 | 806 | 2098471 | 5.00 | It is a class where you can learn a lot. |
| 7 | CS_107 | 807 | 1876309 | 2.00 | Grades are like a thorn in my side. |
| 8 | CS_108 | 808 | 1709843 | 1.00 | The exam difficulty is terrible. I scored 0 on the final. |
| 9 | CS_109 | 803 | 2156372 | 3.00 | I received an average score and got a B0. Hehe. |
| 10 | CS_110 | 805 | 2298401 | 5.00 | The professor is the best~ |
| 11 | CS_111 | 801 | 2346382 | 4.00 | Except for the slight lack of explanation in the assignments, everything is great. :D |
| 12 | IA_101 | 811 | 2265643 | 4.00 | I highly recommend this class because it is very informative. |
| 13 | AI_101 | 809 | 2190345 | 3.00 | There are too many assignments... seriously. |
| 14 | SE_101 | 813 | 2153421 | 3.00 | The exam questions lack discrimination. T_T The average score is 80. |
| 15 | AI_101 | 815 | 2034758 | 2.00 | I barely got a C-cut... It is disappointing. |
| 16 | AI_102 | 816 | 1734294 | 1.00 | The exams were too difficult. |
| 17 | EE_101 | 817 | 1872634 | 3.00 | It is just okay. |
| 18 | EE_102 | 818 | 1837321 | 4.00 | I worked hard, but got an A0. |
| 19 | CS_101 | 801 | 2176255 | 5.00 | The professor has excellent teaching skills. |
| 20 | CS_101 | 801 | 1916811 | 4.00 | The professor resembles the Silberstein family. |
| 21 | EE_104 | 820 | 2176255 | 3.00 | good |
+-----+-----+-----+-----+-----+-----+
21 rows in set (0.00 sec)

```

## 5) searching by lecture name and professor name

```
*****
Ewha Course Evaluation
Welcome to ECE!
*****
1. 강의평가 입력하기
2. 강의평가 검색하기
3. 강의평가 수정하기
4. 강의평가 삭제하기
5. 회원정보
6. 로그아웃
*****
메뉴 번호를 선택해주세요: 2
1. 강의명 및 교수명으로 검색하기
2. 강의내용으로 검색하기
3. 강의명 및 교수명으로 평균 강의평 검색하기
검색할 번호를 입력하세요: 1
검색할 강의명을 입력하세요: Database
검색할 교수님 성함을 입력하세요: Minsoo Lee
-----
강의 ID: CS_101
강의명: Database
교수 이름: Minsoo Lee
학생 ID: 1942051
평점: 5.0
강의평 내용: The professor is excellent in English and explains things in detail. Moreover, they kindly respond to questions.
-----
강의 ID: CS_101
강의명: Database
교수 이름: Minsoo Lee
학생 ID: 2176255
평점: 5.0
강의평 내용: The professor has excellent teaching skills.
-----
강의 ID: CS_101
강의명: Database
교수 이름: Minsoo Lee
학생 ID: 1916011
평점: 4.0
강의평 내용: The professor resembles the Silberstein family.
-----
*****
```

## 6) Searching by lecture contents

```
2. 강의평가 검색하기
3. 강의평가 수정하기
4. 강의평가 삭제하기
5. 회원정보
6. 로그아웃
*****
메뉴 번호를 선택해주세요: 2
1. 강의명 및 교수명으로 검색하기
2. 강의내용으로 검색하기
3. 강의명 및 교수명으로 평균 강의평 검색하기
검색할 번호를 입력하세요: 2
강의내용을 입력하세요: exam
-----
강의 ID: CS_102
강의명: Database
교수 이름: Hyungjoon Lee
학생 ID: 2176255
평점: 4.0
강의평 내용: The professor is friendly, but the exams are not friendly... Sigh.
-----
강의 ID: CS_108
강의명: Computer Networks
교수 이름: Kyuhong Kim
학생 ID: 1709843
평점: 1.0
강의평 내용: The exam difficulty is terrible. I scored 0 on the final.
-----
강의 ID: SE_101
강의명: Introduction to Social Science Education
교수 이름: Yuran Oh
학생 ID: 2153421
평점: 3.0
강의평 내용: The exam questions lack discrimination. T_T The average score is 80.
-----
강의 ID: AI_102
강의명: AI Programming
교수 이름: Dongbo Min
학생 ID: 1734294
평점: 1.0
강의평 내용: The exams were too difficult.
-----
```

## 7) Searching for the average lecture review score by lecture name and professor name

```

*****
      Ewha Course Evaluation
      Welcome to ECE!
*****
1. 강의평가 입력하기
2. 강의평가 검색하기
3. 강의평가 수정하기
4. 강의평가 삭제하기
5. 회원정보
6. 로그아웃
*****
메뉴 번호를 선택해주세요: 2
1. 강의명 및 교수명으로 검색하기
2. 강의내용으로 검색하기
3. 강의명 및 교수명으로 평균 강의평 검색하기
검색할 번호를 입력하세요: 3
과목명을 입력하세요: Database
교수명을 입력하세요: Minsoo Lee
-----
평균 강의평: 4.67
*****
      Ewha Course Evaluation
      Welcome to ECE!
*****
1. 강의평가 입력하기
2. 강의평가 검색하기
3. 강의평가 수정하기
4. 강의평가 삭제하기
5. 회원정보
6. 로그아웃
*****

```

## 8) Rating table before modifying a lecture evaluation

```

mysql> select* from rating;
+-----+-----+-----+-----+-----+-----+
| rating_id | course_id | prof_id | student_id | point | contents |
+-----+-----+-----+-----+-----+-----+
| 1 | CS_101 | 801 | 1942051 | 5.00 | The professor is excellent in English and explains things in detail. Moreover, they kindly respond to questions. |
| 2 | CS_102 | 802 | 2176255 | 4.00 | He is a good professor |
| 3 | CS_103 | 803 | 1916011 | 3.00 | The professor is so kind, and I appreciate their quick feedback. |
| 4 | CS_104 | 804 | 2171231 | 4.00 | The professor is good, but the subject is not enjoyable. |
| 5 | CS_105 | 805 | 2271829 | 2.00 | Run away! |
| 6 | CS_106 | 806 | 2090471 | 5.00 | It is a class where you can learn a lot. |
| 7 | CS_107 | 807 | 1876309 | 2.00 | Grades are like a thorn in my side. |
| 8 | CS_108 | 808 | 1709843 | 1.00 | The exam difficulty is terrible. I scored 0 on the final. |
| 9 | CS_109 | 803 | 2156372 | 3.00 | I received an average score and got a B0. Hehe. |
| 10 | CS_110 | 805 | 2298401 | 5.00 | The professor is the best~ |
| 11 | CS_111 | 801 | 2346382 | 4.00 | Except for the slight lack of explanation in the assignments, everything is great. :D |
| 12 | IA_101 | 811 | 2265643 | 4.00 | I highly recommend this class because it is very informative. |
| 13 | AI_101 | 809 | 2190345 | 3.00 | There are too many assignments... seriously. |
| 14 | SE_101 | 813 | 2153421 | 3.00 | The exam questions lack discrimination. T_T The average score is 80. |
| 15 | AI_101 | 815 | 2034758 | 2.00 | I barely got a C-cut... It is disappointing. |
| 16 | AI_102 | 816 | 1734294 | 1.00 | The exams were too difficult. |
| 17 | EE_101 | 817 | 1872634 | 3.00 | It is just okay. |
| 18 | EE_102 | 818 | 1837321 | 4.00 | I worked hard, but got an A0. |
| 19 | CS_101 | 801 | 2176255 | 5.00 | The professor has excellent teaching skills. |
| 20 | CS_101 | 801 | 1916011 | 4.00 | The professor resembles the Silberstein family. |
+-----+-----+-----+-----+-----+-----+
20 rows in set (0.00 sec)

```

## 9) modifying a lecture evaluation

```

****
Ewha Course Evaluation
Welcome to ECE!
Logged in as: Lee Seoyeon
****
1. 강의평가 입력하기
2. 강의평가 검색하기
3. 강의평가 수정하기
4. 강의평가 삭제하기
5. 회원정보
6. 로그아웃
****
메뉴 번호를 선택해주세요: 3

다음은 Lee Seoyeon님이 남기신 강의평 목록입니다.

강의평 ID: 2
강의명: Database
교수 이름: Hyungjoon Lee
평점: 4.0
강의평 내용: He is a good professor
-----
강의평 ID: 19
강의명: Database
교수 이름: Minsoo Lee
평점: 5.0
강의평 내용: The professor has excellent teaching skills.
-----
강의평을 수정할 ID와 새로운 강의평 내용, 평점을 입력하세요.
강의평 ID: 2
새로운 평점: 5
새로운 강의평 내용: Very Good
강의평 수정이 완료되었습니다.

```

## 10) Rating table after modifying a lecture evaluation and before deleting a lecture evaluation

```

mysql> select* from rating;
+-----+-----+-----+-----+-----+-----+
| rating_id | course_id | prof_id | student_id | point | contents |
+-----+-----+-----+-----+-----+-----+
| 1 | CS_101 | 801 | 1942051 | 5.00 | The professor is excellent in English and explains things in detail. Moreover, they kindly respond to questions. |
| 2 | CS_102 | 802 | 2176255 | 5.00 | Very Good |
| 3 | CS_103 | 803 | 1916011 | 3.00 | The professor is so kind, and I appreciate their quick feedback. |
| 4 | CS_104 | 804 | 2171231 | 4.00 | The professor is good, but the subject is not enjoyable. |
| 5 | CS_105 | 805 | 2271829 | 2.00 | Run away! |
| 6 | CS_106 | 806 | 2098471 | 5.00 | It is a class where you can learn a lot. |
| 7 | CS_107 | 807 | 1876309 | 2.00 | Grades are like a thorn in my side. |
| 8 | CS_108 | 808 | 1709043 | 1.00 | The exam difficulty is terrible. I scored 0 on the final. |
| 9 | CS_109 | 803 | 2156372 | 3.00 | I received an average score and got a B0. Hehe. |
| 10 | CS_110 | 805 | 2298401 | 5.00 | The professor is the best~ |
| 11 | CS_111 | 801 | 2346382 | 4.00 | Except for the slight lack of explanation in the assignments, everything is great. :D |
| 12 | IA_101 | 811 | 2265643 | 4.00 | I highly recommend this class because it is very informative. |
| 13 | AI_101 | 809 | 2190345 | 3.00 | There are too many assignments... seriously. |
| 14 | SE_101 | 813 | 2153421 | 3.00 | The exam questions lack discrimination. T_T The average score is 80. |
| 15 | AI_101 | 815 | 2034758 | 2.00 | I barely got a C-cut... It is disappointing. |
| 16 | AI_102 | 816 | 1734294 | 1.00 | The exams were too difficult. |
| 17 | EE_101 | 817 | 1872634 | 3.00 | It is just okay. |
| 18 | EE_102 | 818 | 1837321 | 4.00 | I worked hard, but got an A0. |
| 19 | CS_101 | 801 | 2176255 | 5.00 | The professor has excellent teaching skills. |
| 20 | CS_101 | 801 | 1916011 | 4.00 | The professor resembles the Silberstein family. |
+-----+-----+-----+-----+-----+-----+
20 rows in set (0.00 sec)

```



## 11) Deleting a lecture evaluation

```

*****
Ewha Course Evaluation
Welcome to ECE!
Logged in as: Lee Seoyeon
*****
1. 강의평가 입력하기
2. 강의평가 검색하기
3. 강의평가 수정하기
4. 강의평가 삭제하기
5. 회원정보
6. 로그아웃
*****
메뉴 번호를 선택해주세요: 4

다음은 Lee Seoyeon님이 남기신 강의평 목록입니다.

강의평 ID: 2
강의명: Database
교수 이름: Hyungjoon Lee
평점: 5.0
강의평 내용: Very Good
-----
강의평 ID: 19
강의명: Database
교수 이름: Minsoo Lee
평점: 5.0
강의평 내용: The professor has excellent teaching skills.
-----
삭제할 강의평 ID를 입력하세요: 19
강의평 삭제가 완료되었습니다.
*****

```

## 12) Rating table after deleting a lecture evaluation

```

mysql> select* from rating;
+-----+-----+-----+-----+-----+-----+
| rating_id | course_id | prof_id | student_id | point | contents |
+-----+-----+-----+-----+-----+-----+
| 1 | CS_101 | 801 | 1942051 | 5.00 | The professor is excellent in English and explains things in detail. Moreover, they kindly respond to questions. |
| 2 | CS_102 | 802 | 2176255 | 5.00 | Very Good |
| 3 | CS_103 | 803 | 1916011 | 3.00 | The professor is so kind, and I appreciate their quick feedback. |
| 4 | CS_104 | 804 | 2171231 | 4.00 | The professor is good, but the subject is not enjoyable. |
| 5 | CS_105 | 805 | 2271829 | 2.00 | Run away! |
| 6 | CS_106 | 806 | 2098471 | 5.00 | It is a class where you can learn a lot. |
| 7 | CS_107 | 807 | 1876309 | 2.00 | Grades are like a thorn in my side. |
| 8 | CS_108 | 808 | 1789843 | 1.00 | The exam difficulty is terrible. I scored 0 on the final. |
| 9 | CS_109 | 803 | 2156372 | 3.00 | I received an average score and got a B0. Hehe. |
| 10 | CS_110 | 805 | 2298401 | 5.00 | The professor is the best~ |
| 11 | CS_111 | 801 | 2346382 | 4.00 | Except for the slight lack of explanation in the assignments, everything is great. :D |
| 12 | IA_101 | 811 | 2265643 | 4.00 | I highly recommend this class because it is very informative. |
| 13 | AI_101 | 809 | 2190345 | 3.00 | There are too many assignments... seriously. |
| 14 | SE_101 | 813 | 2153421 | 3.00 | The exam questions lack discrimination. T_T The average score is 80. |
| 15 | AI_101 | 815 | 2034758 | 2.00 | I barely got a C-cut... It is disappointing. |
| 16 | AI_102 | 816 | 1734294 | 1.00 | The exams were too difficult. |
| 17 | EE_101 | 817 | 1872634 | 3.00 | It is just okay. |
| 18 | EE_102 | 818 | 1837321 | 4.00 | I worked hard, but got an A0. |
| 20 | CS_101 | 801 | 1916011 | 4.00 | The professor resembles the Silberstein family. |
+-----+-----+-----+-----+-----+-----+
19 rows in set (0.00 sec)

```

13) Check current member information and log out

```
*****
      Ewha Course Evaluation
      Welcome to ECE!
      Logged in as: Lee Seoyeon
*****
  1. 강의평가 입력하기
  2. 강의평가 검색하기
  3. 강의평가 수정하기
  4. 강의평가 삭제하기
  5. 회원정보
  6. 로그아웃
*****
메뉴 번호를 선택해주세요: 5
현재 고객 정보 :
이름 Lee Seoyeon   학번 2176255
*****
      Ewha Course Evaluation
      Welcome to ECE!
      Logged in as: Lee Seoyeon
*****
  1. 강의평가 입력하기
  2. 강의평가 검색하기
  3. 강의평가 수정하기
  4. 강의평가 삭제하기
  5. 회원정보
  6. 로그아웃
*****
메뉴 번호를 선택해주세요: 6
로그아웃 되었습니다.
MySQL 연결 해제 성공
```

4. each person's responsibility

- Yudam Jo (create database and insert data, menu 2-3 and 4)
- Hyunsoo Bang (Welcome class, menu 2-1 and 3)
- Seoyeon Lee (modify sql files, menu 1 and 2-2)