데이터베이스기초 과제1

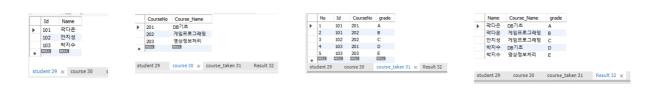
32200185 곽다은

🦞 문제 해결 여부

- 1.해결
- 2.해결(C언어 사용)

문제1.

```
drop database if exists haksa;
create database haksa;
use haksa;
create table student(
   Id int,
    Name char(20),
    primary key(Id)
insert into student values ("101", "곽다은"), ("102", "안지성"), ("103", "박지수");
select * from student;
create table course(
 CourseNo int,
   Course_Name char(20),
    primary key(CourseNo)
insert into course values ("201", "DB기초"), ("202", "게임프로그래밍"), ("203", "영상정보처리");
select * from course;
create table course_taken(
 No int auto_increment primary key,
   Id int,
    CourseNo int,
    grade char(5),
   foreign key(Id) references student(Id),
   foreign key(CourseNo) references course(CourseNo)
);
insert into course_taken(Id, CourseNo, grade) values (101, 201, "A"),
(101, 202, "B"), (102, 202, "C"), (103, 201, "D"), (103, 203, "E");
select * from course_taken;
select student.Name, course_Course_Name, course_taken.grade From student, course, course_taken
Where student.Id = course_taken.Id and course.CourseNo = course_taken.CourseNo;
```



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문제2.

```
#define _CRT_SECURE_NO_WARNINGS
#include <stdio.h>
#include <string.h>
int main(void) {
  struct student {
    int id;
    char Name[20];
  struct course \{
    int CourseNo;
    char Course_Name[20];
 };
  struct courseTaken {
    int No;
    char Name[20];
    char Course_Name[20];
    char grade[5];
  };
  struct student students[3] = { {101, "곽다은"}, {102, "안지성"}, {103, "박지수"} };
  struct course courses[3] = { {201, "DB기초"}, {202, "게임프로그래밍"}, {203, "역시주"} };
struct courseTaken courseTakens[5] = { {1, "곽다은", "DB기초", "A" },
{2, "곽다은", "게임프로그래밍", "B" }, {3, "안지성", "게임프로그래밍", "C" }, {4, "박지수", "DB기초", "D" },
{5, "박지수", "영상정보처리", "E"} };
  printf("Id Name\n");
  for (int i = 0; i < 3; i++) {
    printf("%4d %9s\n", students[i].id, students[i].Name);
  printf("\n");
  printf("CourseNo Course_Name\n");
  for (int i = 0; i < 3; i++) {
   printf("%6d\t %s\n", courses[i].CourseNo, courses[i].Course_Name);
  printf("\n");
  printf("No StdName CosName grade\n");
  for (int i = 0; i < 5; i++) {
    printf("%d %s %s %s\n", courseTakens[i].No, courseTakens[i].Name, courseTakens[i].Course_Name
      , courseTakens[i].grade);
  printf("\n");
  FILE* fStudent = fopen("kde_student.txt", "wb");
  FILE* fCourse = fopen("kde_course.txt", "wb");
  FILE* fCourseTaken = fopen("kde_courseTaken.txt","wb");
  if (fStudent == NULL || fCourse == NULL || fCourseTaken == NULL) {
    printf("파일을 여는 데 실패하였습니다.\n");
    return 0;
  }
  printf("파일을 여는 데 성공하였습니다.\n");
  fwrite(students, sizeof(struct student), 3, fStudent);
  fwrite(courses, sizeof(struct course), 3, fCourse);
  fwrite(courseTakens, sizeof(struct courseTaken), 5, fCourseTaken);
  fclose(fStudent);
  fclose(fCourse);
  fclose(fCourseTaken);
```

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```
return 0;
}
```

```
      Id
      Name

      101
      곽다은

      102
      안지성

      103
      박지수

      CourseNo
      Course_Name

      201
      DB기초

      202
      게임프로그래밍

      203
      영상정보처리

      No
      StdName
      CosName
      grade

      1
      곽다은
      DB기초 A

      2
      곽다은
      게임프로그래밍 B

      3
      안지성
      게임프로그래밍 C

      4
      박지수
      영상정보처리 E

      파일을
      여는
      데 성공하였습니다.
```

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