


National University of Computer and Emerging Sciences, Lahore Campus

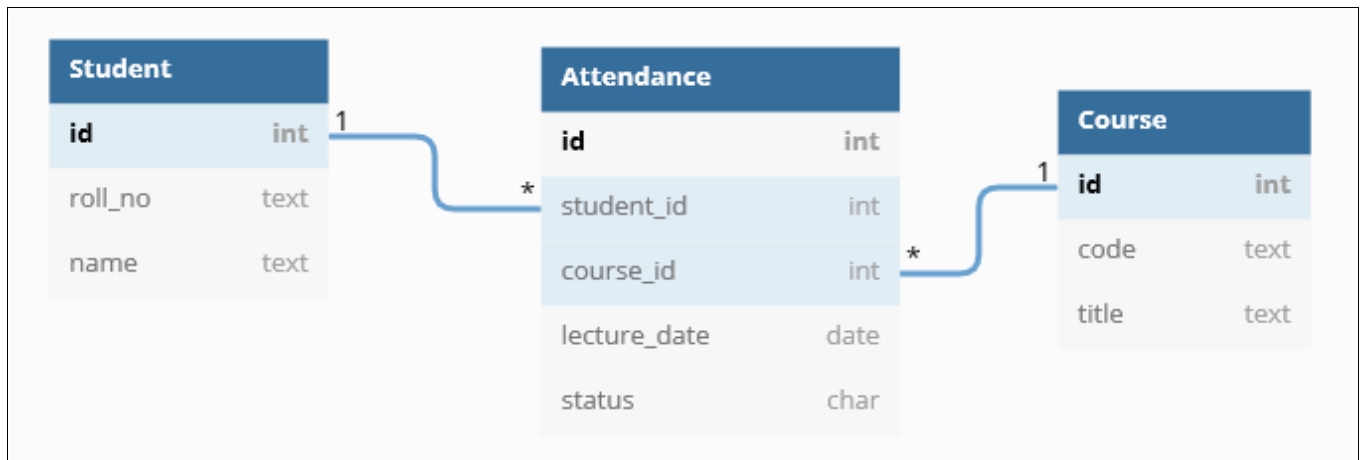
	Course Name:	Software for Mobile Devices	Course Code:	CS-4039
	Degree Program:	BS(CS)	Semester:	Spring 2022
	Exam Duration:	60 Minutes	Total Marks:	25
	Paper Date:	09 - May - 2022	Weight:	12.5
	Section:	ALL	Page(s):	6
	Exam Type:	Midterm-II		

Student Name:_____ **Roll No.**_____ **Section:**_____

Instruction/Notes: This exam is open book and open notes. While writing code, make best effort to write correct and relevant code only. Minor syntactic errors are acceptable and will be ignored during marking but overall concept and approach must be correct. **Also, note that Q2 is different for different sections.**

Question 1

20 points

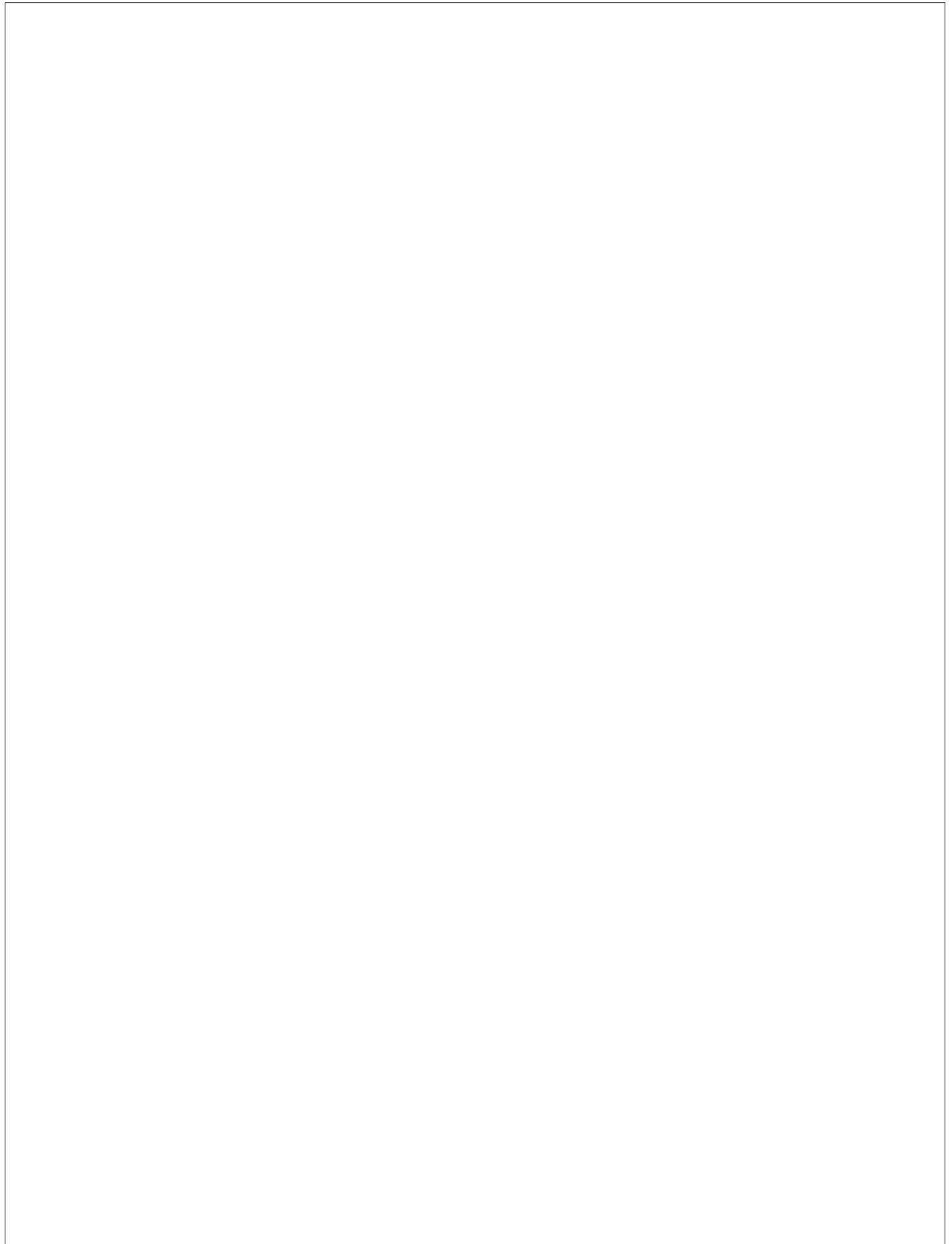


Consider the above schema for database of an application to record attendance of students. Suppose we are implementing an **Android Activity** that is tasked to populate attendance data from a **CSV** file stored on a particular path on device. Sample CSV data for SMD (CS-4039) course is shown below, where the first line is a header line and contains a list of dates (separated by semicolon) on which lectures were conducted, while the rest of lines contains attendance status for each of the students for each lecture day:

```

Roll No;Name;13-sep-2021;15-sep-2021;20-sep-2021;22-sep-2021;27-sep-2021
14L-4521;Anas;P;P;A;A;P
15L-4177;Muhammad Abdullah;P;P;P;P;P
15L-4284;Hamza Ali;P;P;P;P;P
15L-4376;Hamza Jawad;P;P;P;P;P
16L-4256;Ayesha Waheed;P;P;P;P;P
16L-4275;Hassaan Sohail;P;P;P;P;A
16L-4326;Umer Aziz;P;P;P;A;P
  
```

Given that the user supplies csv file path, course code and course title in three text fields on the activity, **write all necessary code** to read data from file and load it into the database. Suppose that this operation is activated on a button click, you may write code for its event handler only, when writing activity code and there is no need to mention layout and other irrelevant aspects.



Question 2 (Sections BCS-6A and BCS-6B only)

5 points

1. Suppose that you are starting a service in an activity as follows:

(2.5)

```
Intent service = new Intent(context, MyService.class);  
startService(service);
```

where **MyService** accesses a remote server via an internet connection. If the Activity is showing an animation that indicates some kind of progress, what issue might you encounter and how could you address it?

2. What is an **Intent**? Can it be used to provide data to a **ContentProvider**? **Why** or **why not**? (2.5)

5 points

- (2.5)**