CS246: Database Management Systems Lab
Lab # 08 (1 Questions, 50 Points)
Submission time: on or before 15-May-2020 at 11:59 hrs   Pages: 2
IIT Guwahati
12-May-2020 (Tue)

Question 1: (50 points)

Assume that you are given files with the given format:

Input files description

courses.csv Each line contains information about one course. The following attributes are given for each course
- Course id
- Name of the course

students.csv Each line of this file contains information about one student
- Name
- Roll number

registers.csv Each line of this file contains description about student's registered courses
- Roll number
- Course id

Note No database is shared with you. You should perform the MySQL implementation assuming that such a database exists

Problem Statement Your task is to:

1. Create a new database
2. Create three tables associated with each of the csv file
   (a) Enforce primary key constraint on each table
   (b) Enforce foreign key constraint on registers table
   (c) Specify On Delete and On update conditions
3. Insert the given data into respective tables
4. Write separate triggers for each of the question
   (a) On inserting a new student in the students relation, ALL the courses must be registered for this student in the registers relation
   (b) Total number of students in CS245 cannot exceed 200
   (c) On inserting a new odd numbered HSS course in the even semester, all the even roll numbered students should register for this course
   (d) On inserting a new even numbered HSS course in the odd semester, all the odd roll numbered students should register for this course

Instructions Adhere to the following

Write SQL program in a file and store them.

File Name Keep your roll number as the name of the file. Example: 180101000.sql

Independent efforts You should make an <u>honest and independent</u> effort in obtaining the solution to the above problem.

Submission Table below shows which student should submit to which TA

TA Name	TA E-mail	From Roll No.	To Roll No.
Swarup	b.swarup@iitg.ac.in	180101001	180101010
Arnuav Saikia	arunav.saikia@iitg.ac.in	180101011	180101020
Ayasha	ayasha@iitg.ac.in	180101021	180101030
Monish Kumar	bmonish@iitg.ac.in	180101031	180101040
Bawane Akshay	a.bawane@iitg.ac.in	180101041	180101050
Dharmendra	dharmend@iitg.ac.in	180101051	180101060
Gagan	g.gagan@iitg.ac.in	180101061	180101070
Hardik Kumar	hardik.kumar@iitg.ac.in	180101071	180101080
Jyotish Saikia	jyotish.saikia@iitg.ac.in	180101081	180101091
Chiranjeevi	kanaka@iitg.ac.in	180101092	180123002
Krishnavandan	k.padhye@iitg.ac.in	180123003	180123012
Mohd Zeeshan	mohd18@iitg.ac.in	180123013	180123022
Rishabh	rdhawan@iitg.ac.in	180123023	180123032
Sagar Kumar	sagarkumar@iitg.ac.in	180123033	180123042
Sandesh	sandesh19@iitg.ac.in	180123043	180123052
Sunil Nomeshwar Naik	nomeshwa@iitg.ac.in	180123053	180123065

Marking Scheme The evaluation criteria is as follows:

Point 3 6 Marks (2 marks for each task 3(a), 3(b), and 3(c))

Point 4 4 Marks

Point 5(a) 10 Marks

Point 5(b) 10 Marks

Point 5(c) 10 Marks

Point 5(d) 10 Marks