

Create following tables

Course (cid, cname, credit)

Primary key: cid

cid: fixed length character string of size 5

cname: variable size character string

credit: single digit decimal

Student (sid, sname, sphone)

Primary key: sid

Candidate key: sphone

Sid: integer

Sname: fixed length character string of size 5

Sphone: ten digit decimal

Registration (sid, cid, grade)

Primary key: sid, cid

Sid and cid are foreign keys.

Grade: single digit decimal

Enforce mentioned conditions to ensure that wrong data cannot be inserted.

Insert data on your own.

Provide two files. One file should contain commands for table creation. Other file should contain SQL statements for following.

Naming convention: <rollnumber>\_create.sql, <rollnumber>\_query.sql

Create a single zip file containing both the files. Name it <rollnumber>.zip

Provide SQL queries for following if possible. If you think that it is impossible, provide reasoning:

1. Name of course for course id "CS344"
2. All student names that start with "Q"
3. Roll numbers and names of students who have registered for at least three courses
4. Phone numbers of all students who are enrolled in "CS344" course
5. CPI of student with roll number "1". Note that CPI is weighted average of grades based on credit.
6. Roll numbers of students having CPI above 7.5
7. Student with highest CPI
8. List of courses for which all students have registered
9. Average grade for all courses
10. Students who have score higher than course average for each course that they have registered for.