

**Software Maintenance, ESOF 326, Spring 2020**  
**Due Jan. 24, beginning of class**

Use the creation script to create the database, use the population script to populate the tables with the following:

- 11 semesters - Fall 2016 to Spring 2020
- 3 programs – SE, CS, EE
- 3 subjects – CSCI, ESOF and M
- 7 courses:
  - CSCI 135 Fundamentals of Computing I (associated with SE & CS)
  - CSCI 136 Fundamentals of Computing II (associated with SE & CS)
  - CSCI 246 Discrete Structures (associated with SE & CS)
  - CSCI 255 Embedded Systems (associated with SE, CS & EE)
  - ESOF 326 Software Maintenance (associated with SE & CS)
  - M 172 Calculus I (associated with SE, CS & EE)
  - ESOF 411 Verification and Validation (associated with SE)
- 5 intervals – and these are associated with the items above

Create views or stored procedures for the following. Throughout this assignment you do not need to be concerned about semester intervals.

1. List the subject, number and name of all courses in the system.

The output should be:

text	number	name
CSCI	135	Fundamentals of Computing I
CSCI	136	Fundamentals of Computing II
CSCI	246	Discrete Structures
CSCI	255	Embedded Systems
CSCI	172	Calculus I
ESOF	326	Software Maintenance
ESOF	411	Verification and Validation

2. Given the id of a program, list the subject, number and name of courses associated with that program.
3. Given the abbreviation for a program, list the subject, number and name of courses associated with that program. The datatype of programs.abbrev is CHAR(5).

4. For all course/program associations in the system, list the name of the course, along with the abbreviation of the program that the course is associated with.
  
  
  
  
  
  
  
  
  
  
5. Generate the next semester. Semester names are of the format Fall 2019, Spring 2020 and Summer 2020. The next semester to be generated would be Fall 2020, then Spring 2021, etc. The datatype of semesters.name is CHAR(11).

Email your solutions, along with sample output, to me.