Assignment #1 RA

1-Consider the below database schema:

Professor(ssn, profname, status)

Course(crscode, crsname, credits)

Taught(crscode, semester, ssn)

Query1) Return the ssn of professors who have taught ‘COMP440’.

**RA:**

**Query: select** ssn

**from** Taught

**where** crscode = ‘COMP440’

Query2) Return the ssn of professors who have taught ‘COMP440’ in ‘Spring 2020’ semester.

**RA:**

**Query: select** ssn

**from** Taught

**where** crscode = ‘COMP440’ **and** semester = ‘Spring2020’

Query3) Return the ssn of professors who have taught both ‘COMP440’ and ‘COMP541’.

**RA:**

**Query: select** A.ssn

**from** Taught A, Taught B

**where** A.crscode = ‘COMP440’ **and** B.crscode = ‘COMP541’ **and** A.ssn=B.ssn

Query4) Return the codes of courses that have never been taught.

**RA:**

**Query: select** crscode

**from** Course

**except**

**select** crscode

**from** Taught

Query5) Return the names of courses that have never been taught.

**RA:**

**Query: select** name

**from** Course**,**

**except**

**select** crscode

**from** Taught

Query6) Return the names of professors who ever taught ‘COMP440’.

**RA:**

**Query: select** Professor.profname

**from** Taught,Professor

**where** Taught.ssn=Professor.ssn **and** Taught.crscode = ‘COMP440’

Query7) Return the names of full professors who ever taught ‘COMP440’.

**RA:**

**Query: select** Professor.profname

**from** Professor, Taught

**where** Professor.ssn = Taught.ssn **and** Taught.crscode = ‘COMP440’

**and** Professor.status = full

2- Consider the below database schema:

Student(id, name, address, status)

Transcript(studid, crscode, semester, grade)

Query8) Return the names of students and the codes of courses which they got grade A.

**RA:**

**Query: select** Student.name, Transcript.crscode

**from** Student, Transcript

**where** Student.id=Transcript.id **and** Transcript.grade ≠ A

Bonus: There is 10 extra credits if you write an equivalent query for at least four of the above queries (2.5 points each).