

SOC ASSIGNMENT-1

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QUESTION ->1

```
test=# SELECT COUNT(DISTINCT course_id)
[test=# FROM course;
count
-----
      13
(1 row)
```

```
test=# SELECT * FROM course;
course_id | title | dept_name_course | credits
-----+-----+-----+-----
 BIO-101  | Intro. to Biology | Biology | 4
 BIO-301  | Genetics | Biology | 4
 BIO-399  | Computational Biology | Biology | 3
 CS-101   | Intro. to Computer Science | Comp. Sci. | 4
 CS-190   | Game Design | Comp. Sci. | 4
 CS-315   | Robotics | Comp. Sci. | 3
 CS-319   | Image Processing | Comp. Sci. | 3
 CS-347   | Database System Concepts | Comp. Sci. | 3
 EE-181   | Intro. to Digital Systems | Elec. Eng. | 3
 FIN-201  | Investment Banking | Finance | 3
 HIS-351  | World History | History | 3
 MU-199   | Music Video Production | Music | 3
 PHY-101  | Physical Principles | Physics | 4
(13 rows)
```

QUESTION—>2

```
test=# SELECT COUNT(DISTINCT ID_teaches)
test=# FROM teaches
test=# WHERE semester_teaches='Spring' AND year_cur_teaches='2018';
count
-----
      6
(1 row)
```

```
test=# SELECT * FROM teaches;
 id_teaches | course_id_teaches | sec_id_teaches | semester_teaches | year_cur_teaches
-----+-----+-----+-----+-----
 10101      | CS-101             | 1              | Fall              | 2017
 10101      | CS-315             | 1              | Spring            | 2018
 10101      | CS-347             | 1              | Fall              | 2017
 12121      | FIN-201            | 1              | Spring            | 2018
 15151      | MU-199             | 1              | Spring            | 2018
 22222      | PHY-101            | 1              | Fall              | 2017
 32343      | HIS-351            | 1              | Spring            | 2018
 45565      | CS-101             | 1              | Spring            | 2018
 45565      | CS-319             | 1              | Spring            | 2018
 76766      | BIO-101            | 1              | Summer            | 2017
 76766      | BIO-301            | 1              | Summer            | 2018
 83821      | CS-190             | 1              | Spring            | 2017
 83821      | CS-190             | 2              | Spring            | 2017
 83821      | CS-319             | 2              | Spring            | 2018
 98345      | EE-181             | 1              | Spring            | 2017
(15 rows)
```

QUESTION—>3

```
test=# SELECT COUNT(DISTINCT t.course_id_teaches)
test=# FROM teaches t
test=# JOIN instructor i on t.ID_teaches=i.ID
test=# WHERE i.instructor_name='Srinivasan';
count
-----
      3
(1 row)
```

QUESTION—>5

```
[test=# SELECT student.ID_student
[test=# FROM student
[test=# LEFT JOIN advisor ON student.ID_student=advisor.s_id
[test=# WHERE advisor.s_id IS NULL;
      id_student
-----
      70557
      19991
      54321
      55739
(4 rows)
```

QUESTION—>4

```
test=# SELECT DISTINCT course_id_takes
test=# FROM takes
test=# WHERE ID_takes = (
test(#      SELECT ID_student
test(#      FROM student
test(#      WHERE Student_name ILIKE 'levy'
test(# )
test=# AND grade != 'F';
      course_id_takes
-----
      CS-101
      CS-319
(2 rows)
```

id_takes	course_id_takes	sec_id_takes	semester_takes	year_cur_takes	grade
45678	CS-101	1	Fall	2017	F
45678	CS-101	1	Spring	2018	B+
45678	CS-319	1	Spring	2018	B

(3 rows)