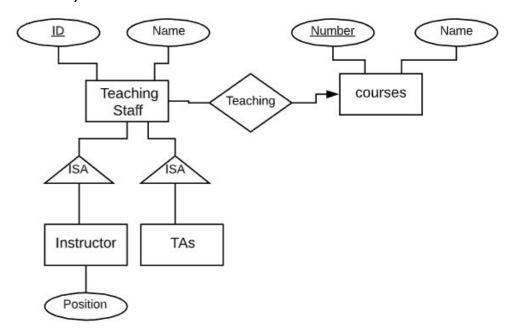
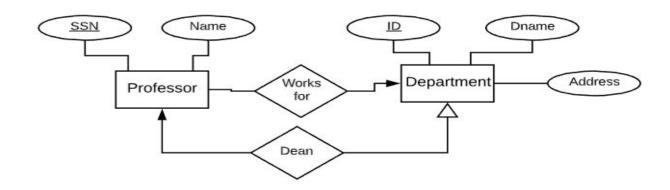
Problem 1)



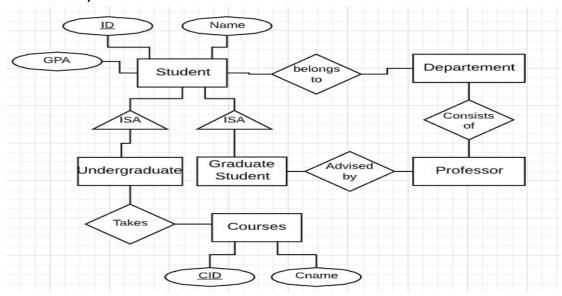
Mistakes

- 1. The ID is the unique key for the Teaching-staff entity.
- 2. TAs will derive the ID from the Teaching Staff entity set.
- 3. Position within a department missing for instructor entity as mentioned in the problem statement.
- 4. As the course entity has its own unique key i.e., Course ID so it will not be a weak entity.
- 5. For many to one relation, there will be directed arrow from the teaching staff to the courses entity set.

Problem 2.1)



Problem 2.2)



Problem 3)

John Mullis: Students (<u>3512</u>, 3.5), Undergraduate Zhe Zhang: Students (<u>4110</u>, 3.6), Graduate Student

Problem 4)

4.1)

3 rows in set (0.00 sec)

Extract all rows from the BOOKS table where the price is greater than 9.00.

2 rows in set (0.00 sec)

Extract all rows from the BOOKS table where the price is less than or equal to 9.00.

4.2)

MariaDB [spawar2]> select * from BOOKS where BOOK_TITLE = 'Queen Lucia';
+-----+
| BOOK_TITLE | ID | PRICE | AVAILABLE |
+-----+
| Queen Lucia | 72 | 5.99 | 0 |
+------+