**Software requirement:**

MySQL server

Python package: MySQLdb or MySQL connector

**Task:**

Please use Python to build a MySQL table (doctors) in your database and insert all records from a text file: doctors.txt. Columns are separated by commas.

1, Dr. David A. Warkentin, Chiropractor, 296, Mesa, AZ

2, Dr. Fawad S. Zafar, Urologist, 97, CLIVE, IA

3, Dr. Pedram A. Hendizadeh, Podiatrist, 69, FAIRFIELD, CT

4, Dr. William Parker, Gynecologist (OBGYN), 83, Los Angeles, CA

5, Dr. William H. Romero, Family Doctor / G.P., 110, Dix Hills, NY

The table should have the schema similar to the following.

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| Field | Type | Null | Key | Default | Extra |

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| docID | int(11) | NO | PRI | NULL | |

| name | varchar(50) | YES | | NULL | |

| specialty | varchar(50) | YES | | NULL | |

| numReviews | int(11) | YES | | NULL | |

| city | tinytext | YES | | NULL | |

| state | varchar(2) | YES | | NULL | |

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docID: doctor ID (primary key: must be unique)

name: doctor name

specialty: doctor specialty

numReviews: number of reviews on rateMDs

city: city where doctor lives

state: sate where doctor lives

Once the table is built, please write python functions to answer the following questions.

1. Find the total number of doctors, the average number of reviews in the state of MD. (Use select statement with some functions like count() and avg())
2. Print out name and specialty about the top 10 doctors in terms of number of reviews in the state of MD. (Use select statement combined with order by)
3. For doctors without city or state information (denoted by a hyphen: ‘-’ in the text file), please update their city or state to be: U. (Use update statement)