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CSP554—Big Data Technologies

Assignment #06 (Modules 06)

Exercises

```
Exercise 1)
```

```
Magic Number = 90027
```

Command:

>>> ex1RDD = sc.textFile('/user/hadoop/foodratings90027.txt')
>>> print(ex1RDD.take(5))

```
hadoop@ip-172-31-52-79:~
```

Exercise 2)

Command:

```
>>> ex2RDD = ex1RDD.map(lambda line: line.split(","))
>>> print(ex2RDD.take(5))
```

```
>>> ex2RDD = ex1RDD.map(lambda line: line.split(","))
>>> print(ex2RDD.take(5))
[['Mel', '47', '26', '38', '31', '2'], ['Joy', '14', '49', '12', '23', '3'], ['Jill', '32', '30', '29', '22', '5'], ['Joy', '35', '19', '14', '47', '5'], ['Mel', '1', '30', '30', '50', '1']]
>>> |
```

Exercise 3)

Command:

```
>>> ex3RDD = ex2RDD.map(lambda line:[line[0], line[1],int(line[2]),line[3],line[4],line[5]])
>>> print(ex3RDD.take(5))
```

```
>>> ex3RDD = ex2RDD.map(lambda line:[line[0], line[1],int(line[2]),line[3],line[4],line[5]])
>>> print(ex3RDD.take(5))
[['Mel', '47', 26, '38', '31', '2'], ['Joy', '14', 49, '12', '23', '3'], ['Jill', '32', 30, '29', '22', '5'], ['Joy', '35', 19, '14', '47', '5'], ['Mel', '1', 30, '30', '50', '1']]
>>> |
```

Exercise 4)

Command:

```
>>> ex4RDD = ex3RDD.filter(lambda x:x[2]<25)
>>> print(ex4RDD.take(5))
```

```
>>> ex4RDD = ex3RDD.filter(lambda x:x[2]<25)
>>> print(ex4RDD.take(5))
[['Joy', '35', 19, '14', '47', '5'], ['Joe', '1', 23, '16', '28', '5'], ['Joe', '42', 6, '47', '42', '1'], ['Mel', '34', 15, '39', '20', '5'], ['Joy', '7', 6, '1', '20', '2']]
```

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Exercise 5)

Command:

Exercise 6)

Command:

>>> ex6RDD = ex5RDD.sortByKey()

>>> print(ex6RDD.take(5))