Analytics of Business Intelligence - Practice Set # 2 Extra

Using the csv file espn.csv answer these questions using data.table, the answers are below.

- 1. On average, which Location has the highest Income?
- 2. On average, which Location has the lowest Income?
- 3. What percentage of the data is men? Women?
- 4. What is the highest income for women at each Location (use by)?
- 5. What is the highest income for men at each Location (use by)?
- 6. Between the ages of men from 18 to 64, which age has the highest average income?
- 7. For men older than 65, which age has the highest average income?
- 8. Between the ages of men from 18 to 64, which age has the highest average income, by each location (use by)?
- 9. In which location are there more women living, between the ages of 19 and 29 (use by)?

Answers:

1. suburban

```
espn[,mean(Income),by=Location])
```

2. urban

3. 0.796875 0.203125

4. rural 128, urban 240, suburban 162

```
espn[Gender=='f', max(Income), by=Location]
```

5. rural 202, suburban 259, urban 189

```
espn[Gender == 'm', max(Income), by=Location]
```

6. age 59, income 139

7. age 113, income 203

```
1     y = espn[Gender=='m' & Age > 65, mean(Income),by=Age]
2     y = y[order(-V1)]
3     y[1]
```

8. rural 48 115.0000, suburban 53 141.3333, urban 44 115.2500

```
1     y = espn[Gender=='m' & Age >= 18 & Age <=64, mean(Income), by=.(Age, Location
        )]
2     y = y[order(Location, -V1)]
3     y[,head(.SD,1),by=Location]</pre>
```

9. urban 22, suburban 26, rural 12

```
espn[Gender=='f' & Age >= 19 & Age <=29,.N,by=Location]
```