Home assignment 4

Zip file with .csv documents was downloaded via *request* library. Then two files .csv was extracted from zip and were written down.
Answer on the first Task is:

Number of questions 154
Number of respondents 51392

Answer on the second Task is:

United States   11455
India   5197
United Kingdom   4395
Germany   4143
Canada   2233
Name: Country, dtype: int64

United States   0.22
India   0.10
United Kingdom   0.09
Germany   0.08
Canada   0.04
Name: Country, dtype: float64

The biggest part of programmers is living in USA that is not surprisingly because USA is one of the most developed country in the world. Also it should be mentioned that USA leadership is superior in compare with the second place, India.

Answer on the 3rd task is:

	Population	Counts	Ratio
Country			
Slovenia	2065890	303	0.000147
Ireland	4792500	345	0.000072
Switzerland	8465234	595	0.000070
United Kingdom	65648000	4395	0.000067
Israel	8815980	575	0.000065
Lithuania	2807495	176	0.000063
Sweden	10112669	611	0.000060
Canada	37015700	2233	0.000060
Austria	8823054	477	0.000054
New Zealand	4855720	252	0.000052

It was complicated to match countries from different tables (from Wiki and csv file) but it was done by manipulating with indexing and merging of corresponding tables.
What about the data it is interesting fact that there is no previous leaders from the 2nd task. The most 'geek' (or liking programming) are the small countries relatively small countries. Lots of countries from West Europe.

Answer on the 4th task is:
VersionControl
Git   21266
Subversion   2790
Team Foundation Server   2255
I don't use version control   1468
I use some other system   924

Zip file back-ups	*609*
Mercurial	*591*
Copying and pasting files to network shares	*510*
Visual Source Safe	*196*
Rational ClearCase	*121*

Answer on the 5th question is:
['Swift', 'JavaScript', 'Python', 'Ruby', 'SQL', 'Java', 'PHP', 'Matlab', 'R', 'Rust', 'CoffeeScript', 'Clojure', 'Elixir', 'Erlang', 'Haskell', 'C#', 'Objective-C', 'C', 'C++', 'Assembly', 'VB.NET', 'Perl', 'Scala', 'F#', 'TypeScript', 'Lua', 'VBA', 'Groovy', 'Go', 'Smalltalk', 'Visual Basic 6', 'Common Lisp', 'Dart', 'Julia', 'Hack']

Answer on the 6th question is:

JavaScript	*22875*
SQL	*18754*
Java	*14524*
C#	*12476*
Python	*11704*
PHP	*10290*
C++	*8155*
C	*6974*
TypeScript	*3488*
Ruby	*3324*

Answer on the 7th question is:

United States 11455 JavaScript
India 5197 JavaScript
United Kingdom 4395 JavaScript
Germany 4143 JavaScript
Canada 2233 JavaScript
France 1740 JavaScript
Poland 1290 JavaScript
Australia 913 JavaScript
Russian Federation 873 JavaScript
Spain 864 JavaScript

Answer on the 8th question is:
The most interesting question is the distribution of mean number programming languages which were set in column 'HaveWorkedLanguage' among countries.