Data Analysis

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March 22, 2020

defining the working directory

```
getwd()
## [1] "C:/Users/GHOOST/Desktop/New Lit/data"
setwd("C:/Users/GHOOST/Desktop/New Lit/data")
```

attaching the packages

```
library(car)

## Loading required package: carData
library(foreign)

## Warning: package 'foreign' was built under R version 3.5.2
```

attaching the data

```
data<-read.csv("International Students Survey.csv")
attach(data)
names(data)</pre>
```

- ## [1] "Timestamp"
- ## [2] "What.degree.are.you.currently.studying.for."
- ## [3] "Please.indicate.the.study.program"
- ## [4] "What.is.the.language.of.instruction.for.your.program."
- ## [5] "How.long.have.you.been.in.Russia.studying.for.your.current.program."
- ## [6] "How.are.you.financing.your.participation.in.the.program."
- ## [7] "Have.you.ever.been.in.Russia.before.you.enrolled.for.your.current.program"
- ## [8] "Unavailability.of.the.desired.study.program"
- ## [9] "Low.quality.of.education"
- ## [10] "Competitive.university.admission.process..difficult.to.gain.admission.to.a.quality.local.inst
- ## [11] "Perceived.advantage.of.international.degree.over.a.local.one.at.the.local.job.market"
- ## [12] "Unavailability.of.scholarship.opportunities"
- ## [13] "Encouragement.from.my.family.to.study.abroad"
- ## [14] "Encouragement.from..my.friends.to.study.abroad"
- ## [15] "Better.earning.prospects.abroad"
- ## [16] "The.social.prestige.of.studying.abroad"
- ## [17] "To.experience.a.different.culture"
- ## [18] "Please.indicate.any.other.other.factor.that.influenced.your.decision.in.leaving.your.home.cou
- ## [19] "Availability.of.desired.study.program"
- ## [20] "Higher.quality.of.education..compared.to.home.country."

```
## [21] "Low.cost.of.living"
## [22] "Low.tuition.fees"
## [23] "Awarded.scholarships.or.tuition.waiver"
## [24] "Attraction.to.Russian.culture..society"
## [25] "Career.prospects.in.Russia."
## [26] "Personal.recommendations.from.parents..relatives..and.friends"
## [27] "cultural.proximity.with.home"
## [28] "geographical.proximity.with.home"
   [29] "Please.indicate.any.other.factor.that.influenced.your.decision.of.choosing.Russia.as.a.place."
##
  [30] "Quality.and.reputation.of.the.University"
  [31] "Recognition.of.the.degree.in.my.home.country"
  [32] "Quality.of.the.teaching.staff"
##
  [33] "The.reputation.of.the.alumni"
## [34] "The.reputation.of.the.international.community"
## [35] "HSE.position.in.international.university.rankings"
##
  [36] "Cost.of.tuition.for.international.students"
  [37] "Availability.of.scholarships"
  [38] "Support.services.for.international.students"
## [39] "Graduates.employment.rates"
## [40] "HSE.s.international.strategic.alliances."
## [41] "Local.employers.preference.of..degrees.awarded.by.HSE"
## [42] "Please.indicate.any.other.factor.that.influenced.your.choice.of.HSE.as.your.preferred.univers
## [43] "What.are.your.plans.after.graduation."
## [44] "What.will.be.your.reason.for.staying.in.Russia.after.graduation."
  [45] "What.will.be.your.reason.for.returning.home.after.graduation."
  [46] "What.will.be.your.reason.for.moving.to.another.country.after.graduation."
  [47] "What.country..or.countries..are.you.considering.migrating.to."
  [48] "Better.job.opportunities..in.comparison.with.home.country."
  [49] "Higher.quality.of.life..in.comparison.with.home.country."
## [50] "Better.career.opportunities.and.advancement.in.chosen.profession"
## [51] "Higher.income.level"
  [52] "Ties.to.family.and.friends"
  [53] "Gain.international.experience"
## [54] "Indicate.any.other.factor.that.has.influenced.your.plan.to.stay.in.Russia.after.graduation"
## [55] "Feelings.of.alienation.from.the.Russian.culture.and.population"
## [56] "Difficulties.in.finding.a.job"
## [57] "Poor.working.conditions"
## [58] "Lower.quality.of.life"
## [59] "Perceived.or.experienced.discrimination"
  [60] "Crime.and.low.level.of.safety"
##
  [61] "Strict.migration.process.difficulties.in.getting.visas."
## [62] "Indicate.any.other.factor.that.has.influenced.your.plan.to.leave.Russia.after.graduation"
  [63] "Feelings.of.alienation.from.the.Russian.culture.and.population.1"
  [64] "Difficulties.in.finding.a.job.1"
  [65] "Poor.working.conditions.1"
  [66] "Lower.quality.of.life.1"
##
   [67] "Perceived.or.experienced.discrimination.1"
  [68] "Crime.and.low.level.of.safety.1"
  [69] "Strict.migration.process.difficulties.in.getting.visas..1"
## [70] "Indicate.any.other.factor.that.has.influenced.your.plan.to.leave.Russia.after.graduation.1"
## [71] "Better.professional.opportunities.in.home.country"
## [72] "Better.quality.of.living.in.home.country"
## [73] "Feeling.more.comfortable.at.home"
```

[74] "Higher.income.levels"

```
## [75] "Family.ties.back.home"
## [76] "Indicate.any.other.factor.that.has.influenced.your.plan.to.return.home.after.graduation"
## [77] "Family.expectations"
## [78] "Restrictive.cultural.practices..eg..pressure.to.marry."
   [79] "Limited.job.opportunities.in.home.country"
## [80] "Lower.income.levels"
## [81] "Lower.quality.of.life.2"
## [82] "Political.persecution"
## [83] "Danger.or.fear.for.one.s.own.life"
## [84] "Indicate.any.other.factor.that.influenced.your.plan.not.to.return.home.after.graduation"
## [85] "Family.expectations.1"
## [86] "Restrictive.cultural.practices..eg..pressure.to.marry..1"
## [87] "Limited.job.opportunities.in.home.country.1"
## [88] "Lower.income.levels.1"
## [89] "Lower.quality.of.life.3"
##
   [90] "Political.persecution.1"
## [91] "Danger.or.fear.for.one.s.own.life.1"
## [92] "Indicate.any.other.factor.that.influenced.your.plan.not.to.return.home.after.graduation.1"
## [93] "Better.job.opportunities"
## [94] "Higher.quality.of.life"
## [95] "Better.career.opportunities.and.advancement.in.chosen.profession.1"
## [96] "Higher.income.levels.1"
## [97] "Ties.to.family.and.friends.1"
## [98] "Gain.international.experience.1"
## [99] "Flexible.immigration.process"
## [100] "Indicate.any.other.factor.that.has.influenced.your.plan.to.move.to.another.country.after.grad
## [101] "Gender"
## [102] "Age"
## [103] "Home.country"
## [104] "Family.status"
## [105] "What.was.your.annual.family.income.when.you.were.applying.to.study.abroad..estimate.in.US.dol
## [106] "Would.you.be.willing.to.take.part.in.one.of.our.interviews."
## [107] "Please.provide.your.contact.details..Email."
```

background information

```
#degree
table(What.degree.are.you.currently.studying.for.)
## What.degree.are.you.currently.studying.for.
##
                                                                  Bachelor
##
                                                                       171
##
                                Master Preparatory Year (Language course)
##
                                   242
#language of instruction
table(What.is.the.language.of.instruction.for.your.program.)
## What.is.the.language.of.instruction.for.your.program.
           English Russian
##
               164
         1
#length of stay in Russia
table (How.long.have.you.been.in.Russia.studying.for.your.current.program.)
```

```
##
                           1 to 2 years
                                             2 to 3 years
                                                                3 to 4 years
##
                                    153
##
    less than a year more than 4 years
##
                 163
#financing status
table(How.are.you.financing.your.participation.in.the.program.)
## How.are.you.financing.your.participation.in.the.program.
##
                  Partly tuition Tuition based
                                                   Tuition free
##
                               66
                                                             275
#ever been in Russia
table (Have.you.ever.been.in.Russia.before.you.enrolled.for.your.current.program)
## Have.you.ever.been.in.Russia.before.you.enrolled.for.your.current.program
##
##
                                                             182
##
                Yes, for holiday
                                                 Yes, for study
##
                              104
##
                   Yes, for work Yes, I have lived here before
##
```

Factors influencing the decision to study in Russia

table(Unavailability.of.scholarship.opportunities)

push factors in Home country

```
#unvailable program
table(Unavailability.of.the.desired.study.program)
## Unavailability.of.the.desired.study.program
        2
            3
  74 52 94 91 105
#low quality of education
table(Low.quality.of.education)
## Low.quality.of.education
         2
                4
            3
   77 48 85 82 123
#competive Uni admission
table(Competitive.university.admission.process..difficult.to.gain.admission.to.a.quality.local.institut
## Competitive.university.admission.process..difficult.to.gain.admission.to.a.quality.local.institution
                4
     1
        2
            3
## 136 59 84 81 53
#advantage of international degree
table(Perceived.advantage.of.international.degree.over.a.local.one.at.the.local.job.market)
## Perceived.advantage.of.international.degree.over.a.local.one.at.the.local.job.market
         2
                4
##
     1
            3
   43 40 85 114 130
#unavailability of scholarship
```

```
## Unavailability.of.scholarship.opportunities
   1
       2 3
               4
## 136 46 88 62 82
#encouragement from family
table(Encouragement.from.my.family.to.study.abroad)
## Encouragement.from.my.family.to.study.abroad
## 1 2 3 4 5
## 78 47 98 95 94
#encouragement from friends
table(Encouragement.from..my.friends.to.study.abroad)
## Encouragement.from..my.friends.to.study.abroad
           3 4
   1
       2
##
## 99 50 117 68 80
#earning prospects
table(Better.earning.prospects.abroad)
## Better.earning.prospects.abroad
   1 2 3 4 5
## 43 25 77 123 146
#social prestige
table(The.social.prestige.of.studying.abroad)
## The.social.prestige.of.studying.abroad
##
   1 2 3 4 5
## 44 37 77 102 153
#experience different culture
table(To.experience.a.different.culture)
## To.experience.a.different.culture
   1
       2 3 4 5
## 69 39 73 75 158
#Please.indicate.any.other.other.factor.that.influenced.your.decision.in.leaving.your.home.country.to.s
```

pull factors in Russia

```
#available program
table(Availability.of.desired.study.program)

## Availability.of.desired.study.program
## 1 2 3 4 5
## 21 20 92 117 166

#high quality of education
table(Higher.quality.of.education..compared.to.home.country.)

## Higher.quality.of.education..compared.to.home.country.
## 1 2 3 4 5
## 34 26 72 117 167

#low cost of living
table(Low.cost.of.living)
```

```
## Low.cost.of.living
## 1 2 3 4 5
## 80 71 105 71 89
#low tuition fees
table(Low.tuition.fees)
## Low.tuition.fees
## 1 2 3 4
## 97 45 89 64 118
#scholarships
table(Awarded.scholarships.or.tuition.waiver)
## Awarded.scholarships.or.tuition.waiver
## 1 2 3 4 5
## 51 37 85 68 170
#attraction to Russian culture
table(Attraction.to.Russian.culture..society)
## Attraction.to.Russian.culture..society
## 1 2 3 4 5
## 74 46 106 86 104
#career prospects in Russia
table(Career.prospects.in.Russia.)
## Career.prospects.in.Russia.
## 1 2 3 4 5
## 72 56 98 84 104
#recommendations from family and friends
table (Personal.recommendations.from.parents..relatives..and.friends)
## Personal.recommendations.from.parents..relatives..and.friends
## 1 2 3 4 5
## 99 59 88 81 89
#cultural proximity
table(cultural.proximity.with.home)
## cultural.proximity.with.home
## 1 2 3 4 5
## 122 59 95 65 73
#qeographical proximity
table(geographical.proximity.with.home)
## geographical.proximity.with.home
## 1 2 3 4 5
## 141 54 83 64 74
#Please.indicate.any.other.factor.that.influenced.your.decision.of.choosinq.Russia.as.a.place.to.study
```

Pull Factors in HSE

```
#quality and reputation
table(Quality.and.reputation.of.the.University)
```

```
## Quality.and.reputation.of.the.University
## 1 2 3 4 5
## 13 4 40 124 236
#recognition of degree
table(Recognition.of.the.degree.in.my.home.country)
## Recognition.of.the.degree.in.my.home.country
## 1 2 3 4 5
## 52 45 98 95 127
#quality of teachers
table(Quality.of.the.teaching.staff)
## Quality.of.the.teaching.staff
## 1 2 3 4 5
## 18 17 93 115 173
#reputation of alumni
table(The.reputation.of.the.alumni)
## The.reputation.of.the.alumni
   1 2 3 4 5
## 58 37 114 104 104
#reputation of international community
table(The.reputation.of.the.international.community)
## The.reputation.of.the.international.community
## 1 2 3 4 5
## 46 31 105 121 114
#HSE rank
table(HSE.position.in.international.university.rankings)
## HSE.position.in.international.university.rankings
## 1 2 3 4 5
## 23 28 91 118 156
#cost of tuition
table(Cost.of.tuition.for.international.students)
## Cost.of.tuition.for.international.students
## 1 2 3 4 5
## 74 45 87 66 143
#availability of scholarships
table(Availability.of.scholarships)
## Availability.of.scholarships
## 1 2 3 4 5
## 48 22 66 86 193
#support for international students
table(Support.services.for.international.students)
## Support.services.for.international.students
## 1 2 3 4 5
## 72 45 90 93 116
```

```
#graduate employment
table(Graduates.employment.rates)
## Graduates.employment.rates
        2
            3
                4
## 55 35 107 111 109
#HSE alliances
table(HSE.s.international.strategic.alliances.)
## HSE.s.international.strategic.alliances.
        2
## 68 35 114 105 93
#local preference for HSE degree
table(Local.employers.preference.of..degrees.awarded.by.HSE)
## Local.employers.preference.of..degrees.awarded.by.HSE
        2
            3
                4
## 66 42 99 96 111
#Please.indicate.any.other.factor.that.influenced.your.choice.of.HSE.as.your.preferred.university
```

Post graduation migration plans

graduation plans

```
table(What.are.your.plans.after.graduation.)

## What.are.your.plans.after.graduation.

## Move to another country Return to home country

## 5 156 98

## Stay in Russia

## 159
```

staying in Russia

```
table(What.will.be.your.reason.for.staying.in.Russia.after.graduation.)
## What.will.be.your.reason.for.staying.in.Russia.after.graduation.
##
##
##
##
##
##
##
##
## Gaining education in political science (and working in this sphere as well) my attitude towards Russ
##
##
##
##
                                                                                         I would have chos-
##
```

```
##
##
##
##
##
##
##
##
##
##
##
##
##
##
Reason for staying in Russia
#job opportunities
table(Better.job.opportunities..in.comparison.with.home.country.)
## Better.job.opportunities..in.comparison.with.home.country.
## 1 2 3 4 5
## 6 5 29 38 81
#quality of life
table(Higher.quality.of.life..in.comparison.with.home.country.)
## Higher.quality.of.life..in.comparison.with.home.country.
## 1 2 3 4 5
## 10 16 29 39 65
#career opportunities
table (Better.career.opportunities.and.advancement.in.chosen.profession)
## Better.career.opportunities.and.advancement.in.chosen.profession
## 1 2 3 4 5
## 6 2 18 50 83
#income level
table(Higher.income.level)
## Higher.income.level
## 1 2 3 4 5
## 7 12 27 38 75
#ties to family and friends
table(Ties.to.family.and.friends)
## Ties.to.family.and.friends
## 1 2 3 4 5
## 29 20 40 33 37
#international experience
table(Gain.international.experience)
## Gain.international.experience
## 1 2 3 4 5
## 21 16 28 37 57
```

```
\#Indicate.any.other.factor.that.has.influenced.your.plan.to.stay.in.Russia.after.graduation
```

Reasons for not returning home but stay in Russia

```
#family expectations
table(Family.expectations)
## Family.expectations
## 1 2 3 4 5
## 39 21 38 26 35
#cultural practices
table(Restrictive.cultural.practices..eg..pressure.to.marry.)
## Restrictive.cultural.practices..eg..pressure.to.marry.
## 1 2 3 4 5
## 89 20 30 14 6
#limited job opportunities in Home country
table(Limited.job.opportunities.in.home.country)
## Limited.job.opportunities.in.home.country
## 1 2 3 4 5
## 21 10 29 36 63
#income levels
table(Lower.income.levels)
## Lower.income.levels
## 1 2 3 4 5
## 18 15 32 41 51
#quality of life
table(Lower.quality.of.life.2)
## Lower.quality.of.life.2
## 1 2 3 4 5
## 28 12 33 38 48
#political persecution
table(Political.persecution)
## Political.persecution
## 1 2 3 4 5
## 82 18 30 14 15
#danger to one's life
table(Danger.or.fear.for.one.s.own.life)
## Danger.or.fear.for.one.s.own.life
       2 3
               4 5
   1
## 103 13 25
                8 10
\#Indicate.any.other.factor.that.influenced.your.plan.not.to.return.home.after.graduation
```

returning home

```
table(What.will.be.your.reason.for.returning.home.after.graduation.)
```

```
## What.will.be.your.reason.for.returning.home.after.graduation.
##
##
##
                                                                                        actually, im not
##
##
##
##
##
##
##
## I have a commitment to the Institute of Education in my country to return to work a few years in my
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
Reasons for Leaving Russia to Return Home
#feeling of alienation
table (Feelings.of.alienation.from.the.Russian.culture.and.population)
## Feelings.of.alienation.from.the.Russian.culture.and.population
## 1 2 3 4 5
## 23 16 27 14 18
#finding jobs
table(Difficulties.in.finding.a.job)
## Difficulties.in.finding.a.job
## 1 2 3 4 5
## 9 16 24 21 28
#working conditions
table(Poor.working.conditions)
## Poor.working.conditions
## 1 2 3 4 5
## 18 13 28 19 17
#quality of life
table(Lower.quality.of.life)
## Lower.quality.of.life
## 1 2 3 4 5
```

```
## 16 18 23 19 19
#discrimination
table(Perceived.or.experienced.discrimination)
## Perceived.or.experienced.discrimination
## 1 2 3 4 5
## 29 12 26 8 20
#crime and safety level
table(Crime.and.low.level.of.safety)
## Crime.and.low.level.of.safety
## 1 2 3 4 5
## 31 11 27 9 17
#immigration process
table(Strict.migration.process.difficulties.in.getting.visas.)
## Strict.migration.process.difficulties.in.getting.visas.
## 1 2 3 4 5
## 18 10 23 19 25
\#Indicate.any.other.factor.that.has.influenced.your.plan.to.leave.Russia.after.graduation
Reasons for returning home
#professional opportunites in HC
table(Better.professional.opportunities.in.home.country)
## Better.professional.opportunities.in.home.country
## 1 2 3 4 5
## 10 11 18 18 38
#quality of living in HC
table(Better.quality.of.living.in.home.country)
## Better.quality.of.living.in.home.country
## 1 2 3 4 5
## 9 7 17 19 43
#feeling comfortable at home
table(Feeling.more.comfortable.at.home)
## Feeling.more.comfortable.at.home
## 1 2 3 4 5
## 4 3 15 17 59
#income levels
table(Higher.income.levels)
## Higher.income.levels
## 1 2 3 4 5
## 8 9 29 12 36
#family ties in HC
table(Family.ties.back.home)
## Family.ties.back.home
## 1 2 3 4 5
## 4 3 15 23 50
```

moving to another country

```
table(What.will.be.your.reason.for.moving.to.another.country.after.graduation.)
## What.will.be.your.reason.for.moving.to.another.country.after.graduation.
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
##
## This is pretty much unplanned yet. Mostly, I am gearing up for PhD, but am not sure. I love exploring
##
##
##
##
##
##
#another country
#table(What.country..or.countries..are.you.considering.migrating.to.)
Reasons for Leaving Russia to move to another country
#feeling of aliention
table(Feelings.of.alienation.from.the.Russian.culture.and.population.1)
```

```
## Feelings.of.alienation.from.the.Russian.culture.and.population.1
## 1 2 3 4 5
## 50 16 33 28 27
#finding jobs
table(Difficulties.in.finding.a.job.1)
## Difficulties.in.finding.a.job.1
## 1 2 3 4 5
## 32 21 36 27 38
#working conditions
table(Poor.working.conditions.1)
## Poor.working.conditions.1
## 1 2 3 4 5
## 27 21 49 30 26
#discrimination
table(Perceived.or.experienced.discrimination.1)
## Perceived.or.experienced.discrimination.1
## 1 2 3 4 5
## 40 23 28 31 32
#crime and safetly level
table(Crime.and.low.level.of.safety.1)
## Crime.and.low.level.of.safety.1
## 1 2 3 4 5
## 57 25 37 14 21
#immigration process
table(Strict.migration.process.difficulties.in.getting.visas..1)
## Strict.migration.process.difficulties.in.getting.visas..1
## 1 2 3 4 5
## 47 28 36 20 23
\#Indicate.any.other.factor.that.has.influenced.your.plan.to.leave.Russia.after.graduation.1
Reasons for not returning home but move to another country
#family expectations
table(Family.expectations.1)
## Family.expectations.1
## 1 2 3 4 5
## 52 18 28 29 26
#cultural practices
table(Restrictive.cultural.practices..eg..pressure.to.marry..1)
## Restrictive.cultural.practices..eg..pressure.to.marry..1
## 1 2 3 4 5
## 87 17 21 14 14
#limited job opportunities
table(Limited.job.opportunities.in.home.country.1)
## Limited.job.opportunities.in.home.country.1
```

```
## 1 2 3 4 5
## 25 11 20 32 65
#income levels
table(Lower.income.levels.1)
## Lower.income.levels.1
## 1 2 3 4 5
## 26 8 15 33 70
#quality of life
table(Lower.quality.of.life.3)
## Lower.quality.of.life.3
## 1 2 3 4 5
## 26 12 30 27 58
#political persecution
table(Political.persecution.1)
## Political.persecution.1
## 1 2 3 4 5
## 57 17 27 22 29
#danger to one's life
table(Danger.or.fear.for.one.s.own.life.1)
## Danger.or.fear.for.one.s.own.life.1
## 1 2 3 4 5
## 76 24 18 20 15
\#Indicate.any.other.factor.that.influenced.your.plan.not.to.return.home.after.graduation.1
Reasons for moving to another country
#job opportunities
table(Better.job.opportunities)
## Better.job.opportunities
## 1 2 3 4 5
## 4 5 18 45 81
#quality of life
table(Higher.quality.of.life)
## Higher.quality.of.life
## 1 2 3 4 5
## 3 5 18 36 90
#career opportunities
table(Better.career.opportunities.and.advancement.in.chosen.profession.1)
## Better.career.opportunities.and.advancement.in.chosen.profession.1
## 1 2 3 4 5
## 4 3 19 41 86
#income levels
table(Higher.income.levels.1)
## Higher.income.levels.1
## 1 2 3 4 5
```

```
## 5 6 18 34 89
#ties to family and friends
table(Ties.to.family.and.friends.1)
## Ties.to.family.and.friends.1
## 1 2 3 4 5
## 64 29 30 14 16
#international experience
table(Gain.international.experience.1)
## Gain.international.experience.1
## 1 2 3 4 5
## 5 5 17 32 94
#immigration process
table(Flexible.immigration.process)
## Flexible.immigration.process
## 1 2 3 4 5
## 28 20 37 22 46
\#Indicate.any.other.factor.that.has.influenced.your.plan.to.move.to.another.country.after.graduation
Demographic
#Gender
table(Gender)
## Gender
##
                   Male
          Female
##
             218
                    197
#Aqe
#table(Age)
#Home Country
#table(Home.country)
#family status
table(Family.status)
## Family.status
##
                                      Divorced
                                                             Married
                                                                  16
## Married with children
                                        Single
                                           387
#family income status
table(What.was.your.annual.family.income.when.you.were.applying.to.study.abroad..estimate.in.US.dollars
\verb| ## What.was.your.annual.family.income.when.you.were.applying.to.study.abroad..estimate.in. US.dollars.\\
##
                         $20,000 or less $20,001 - $50,000
##
                   27
                                     195
   $50,001 - $80,000 $80,001 - $110,000 more than $110,000
##
```

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##

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