ECON

CHAcha

202183

```
##
## 다음의 패키지를 부착합니다: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
setwd("C:/Users/82106/OneDrive/바탕 화면/2021-1/SAM/DATA_SAM")
ECON<-read.csv("ECONSERVEY.csv",header = T)
head(ECON)
##
     region list sector workers X4th_I X4th.IOT. X4th.CLOUD. X4th.BIG_DATA.
## 1
         11
                      С
                           1553
## 2
         11
               1
                      С
                          17299
                                     1
                                               1
                      С
                          35348
## 3
         11
               1
                                     1
                                               1
                      С
## 4
         11
                           3582
                                               1
## 5
         11
                      C
                           7662
                                               1
                      F
## 6
         11
                           4366
     X4th.Al. scale T_asset
                               T_dept T_capital revenue non.revenue
                                                                         cost
                  N 2606107
## 1
                               943293
                                        1662814 1761760
                                                               33487 1760391
            1
## 2
            1
                  Y 55710766 10096581 45614185 30373511
                                                             1106860 27787152
## 3
            1
                  Y 38898576 14753904
                                       24144672 33857781
                                                             1236184 32378732
                                                1519479
## 4
                  Y 2406652 1438228
                                         968424
                                                               10269
                                                                      1433725
## 5
                  Y 5070126
                              3093241
                                        1976885 8042528
                                                              230842
                                                                      7754797
## 6
                  Y 11302918 5717111
                                        5585807 10014658
                                                              253137
                                                                      9644094
```

```
glimpse(ECON)
```

```
## Rows: 13,251
## Columns: 16
## $ region
          ## $ list
          ## $ sector
          <chr> "1553", "17299", "35348", "3582", "7662", "4366", "5387~
## $ workers
          ## $ X4th_I
          ## $ X4th.IOT.
## $ X4th.CLOUD.
          ## $ X4th.AI.
          ## $ scale
          <chr> "2606107". "55710766". "38898576". "2406652". "5070126"~
## $ T_asset
          <chr> "943293", "10096581", "14753904", "1438228", "3093241".~
## $ T dept
## $ T_capital
          <chr> "1662814", "45614185", "24144672", "968424", "1976885",~
          <chr> "1761760", "30373511", "33857781", "1519479", "8042528"~
## $ revenue
          <chr> "33487", "1106860", "1236184", "10269", "230842", "2531~
## $ non.revenue
          <chr> "1760391", "27787152", "32378732", "1433725", "7754797"~
## $ cost
```

sum(is.na(ECON))

[1] 49

ECON=na.omit(ECON)

```
## Rows: 13,116
## Columns: 16
            <chr> "11", "11", "11", "11", "11", "11", "11", "11", "11", "11". "~
## $ region
                   "1", "1", "1", "1", "1", "1",
                                      "1", "1", "1",
## $ list
            ## $ sector
## $ workers
            <dbl> 1553, 17299, 35348, 3582, 7662, 4366, 5387, 7459, 9119,~
            ## $ X4th_I
## $ X4th.IOT.
            ## $ X4th.CLOUD.
            ## $ X4th.AI.
            ## $ scale
            <dbl> 2606107, 55710766, 38898576, 2406652, 5070126, 11302918~
## $ T_asset
## $ T_dept
            <dbl> 943293, 10096581, 14753904, 1438228, 3093241, 5717111, ~
## $ T_capital
            <dbl> 1662814, 45614185, 24144672, 968424, 1976885, 5585807, ~
## $ revenue
            <dbl> 1761760, 30373511, 33857781, 1519479, 8042528, 10014658~
## $ non.revenue
            <dbl> 33487, 1106860, 1236184, 10269, 230842, 253137, 397004,~
## $ cost
            <dbl> 1760391, 27787152, 32378732, 1433725, 7754797, 9644094,~
```

##	region	list	sector	workers
##	Length: 13116	Length: 13116	Length: 13116	Min. : 5.0
##	Class :character	Class :character	Class :character	1st Qu.: 67.0
##	Mode :character	Mode :character	Mode :character	Median : 108.0
##				Mean : 314.4
##				3rd Qu.: 215.2
##				Max. :105027.0
##	X4th_I	X4th.IOT.	X4th.CLOUD.	X4th.BIG_DATA.
##	Length: 13116	Min. :0.00000	Min. :0.0000	Min. :0.00000
##	Class :character	1st Qu.:0.00000	1st Qu.:0.0000	1st Qu.:0.00000
##	Mode :character	Median :0.00000	Median :0.0000	Median :0.00000
##		Mean :0.03744	Mean :0.0539	Mean :0.04803
##		3rd Qu.:0.00000	3rd Qu.:0.0000	3rd Qu.:0.00000
##		Max. :1.00000	Max. :1.0000	Max. :1.00000
##	X4th.Al.	scale	T_asset	T_dept
##	Min. :0.00000	Length: 13116	Min. : 123	
##	1st Qu.:0.00000	Class :character	1st Qu.: 16058	3 1st Qu.: 6846
##	Median :0.00000	Mode :character	Median : 38316	6 Median: 17486
##	Mean :0.02737		Mean : 599609	Mean : 427885
##	3rd Qu.:0.00000		3rd Qu.: 99078	3rd Qu.: 45598
##	Max. :1.00000		Max. :647204186	6 Max. :604223764
##	T_capital	revenue	non.revenue	cost
##	Min. : -746889	Min. :	1 Min. :	0 Min. : 76
##	1st Qu.: 5644	1st Qu.: 1562	21 1st Qu.: 17	'9 1st Qu.: 15338
##	Median : 17033	Median: 3467	'3 Median: 59	91 Median: 33394
##	Mean : 171724	Mean : 23614	2 Mean : 804	19 Mean : 224459
##	3rd Qu.: 53050	3rd Qu.: 9070	00 3rd Qu.: 216	32 3rd Qu.: 85996
##	Max. : 177870247	Max. :15477285	950483 Max.	36 Max. :140657792

변수 설명

*region:행정구역(시도)(11:서울.21:부산,23:인천,31:경기..)

*list:주식시장상장형태(1:코스피,2:코스닥,3:비상장,4:코넥스)

*sector:산업분류(대)(C:제조업,G:도,소매업, J:정보톹신업)

*workers:종사자수 상용(남+여)

*4th_I:4차 산업혁명기술개발활용여부 (개발활용:1, 해당없음:2)

*4th(IOT): 4차산업혁명 개발활용 여부(IOT) (개발활용:1, 해당없음:0)

*4th(CLOUD): 4차산업혁명 개발활용 여부(CLUD) (개발활용:1, 해당없음:0)

*4th(BIG_DATA): 4차산업혁명 개발활용 여부(BIG_DATA) (개발활용:1, 해당없음:0)

*4th(AI):4차산업혁명 개발활용 여부(AI) (개발활용:1, 해당없음:0)

*scale :대기업집단여부 (개발활용:1, 해당없음:0)

*T_asset:재무구조_자산_총계

*T_dept:재무구조 부채 총계

*T_capital: 재무구조_자본총계

*revenue: 경영실적_매출액,영업수익

*non-revenue: 경영실적_영업외수익

*cost: 비용내역_영업비용_계

영업수익 vs 영업외수익

영업수익

기업 본래의 주된 영업 활동에서 생기는 수익

EX)상품 및 제품의 매출액

영업외수익

기업의 주된 영업활동이 아닌 활동으로부터 발생한 수익

EX)이자수익, 단기매매증권처분이익, 단기매매증권평가이익, 임대료, 수수료수익, 배당금수익, 유형자산처분이익, 채무면제이익, 자산수증이익, 외환차익