Process of Analysis

Process of Analysis from original big dataset to small datasets

For Average annual hours worked,

Dataset statistics

Number of variables	8
Number of observations	14688
Missing cells	0
Missing cells (%)	0.0%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	1.0 MiB
Average record size in memory	72.0 B

Based on panda-profiling.

There are 14688 observations with 8 variables to work on.

Right now, only "Indicators" columns have one value.

Variable types

Numeric	2
Categorical	6

Quantile statistics (VALUE)

Minimum	462
5-th percentile	966.35
Q1	1480
median	1593
Q3	1699
95-th percentile	1892
Maximum	2500
Range	2038
Interquartile range (IQR)	219

Descriptive statistics (VALUE)

Standard deviation	252.78409
Coefficient of variation (CV)	0.16293554
Kurtosis	1.2934123
Mean	1551.4361
Median Absolute Deviation (MAD)	108
Skewness	-1.0026593
Sum	22787494
Variance	63899.795
Monotonicity	Not monotonic

Histogram (VALUE)

Histogram with fixed size bins (bins=50)
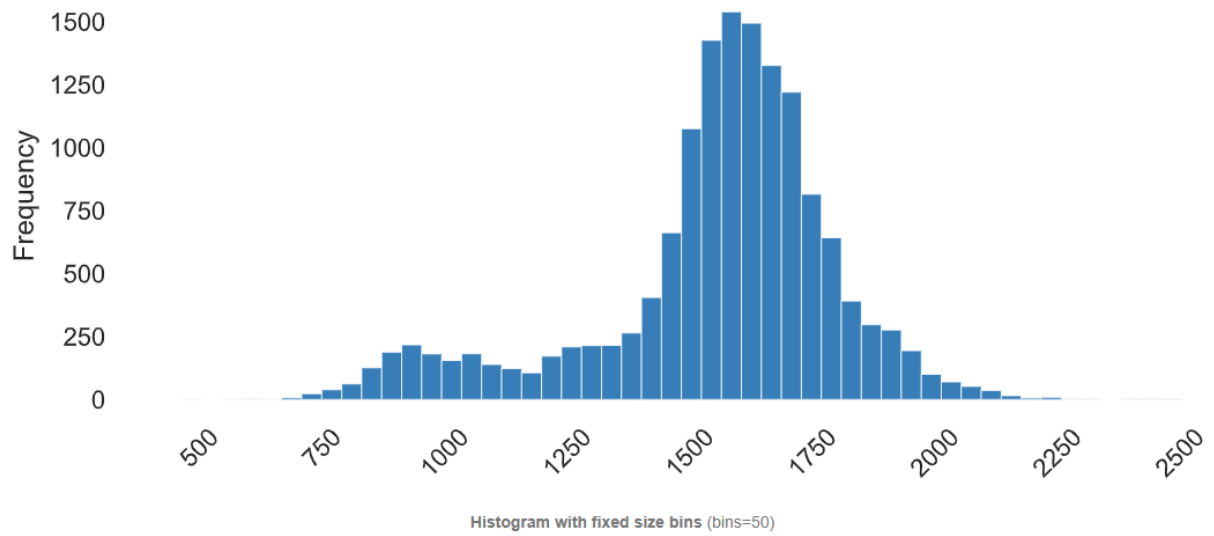
Average value is 1551.44 hours and Median value is 1593 hours. Skewed toward left.

For Average annual wages and salaries,

Dataset statistics

Number of variables	8
Number of observations	14688
Missing cells	0
Missing cells (%)	0.0%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	1.0 MiB
Average record size in memory	72.0 B

Based on panda-profiling.

There are 14688 observations with 8 variables to work on.

Right now, only "Indicators" columns have one value.

Variable types

Numeric	2
Categorical	6

Quantile statistics (VALUE)

Minimum	8769
5-th percentile	18992.85
Q1	32900.5
median	42186.5
Q3	52319.75
95-th percentile	73362.6
Maximum	133071
Range	124302
Interquartile range (IQR)	19419.25

Descriptive statistics (VALUE)

Standard deviation	16620.351
Coefficient of variation (CV)	0.37941864
Kurtosis	1.9439325
Mean	43804.783
Median Absolute Deviation (MAD)	9684
Skewness	0.91651225
Sum	6.4340465×10^8
Variance	2.7623607×10^8
Monotonicity	Not monotonic

Histogram (VALUE)

Histogram with fixed size bins (bins=50)
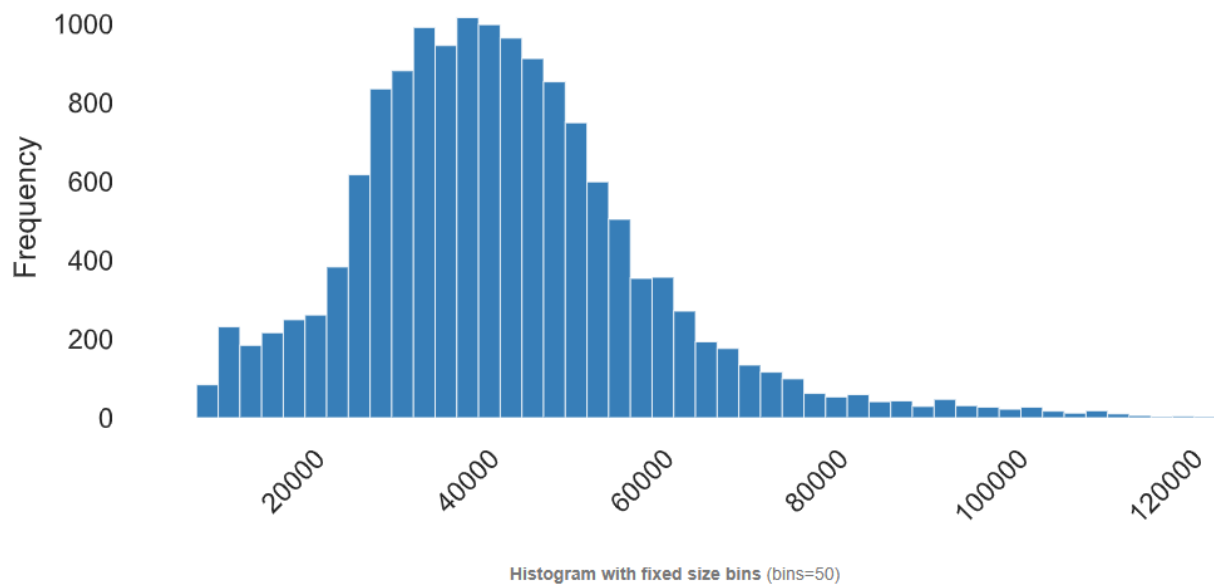
The average for this section is $43804.79 and median is $42186.50. Skewed toward little right.

For Average hourly wages,

Dataset statistics

Number of variables	8
Number of observations	14688
Missing cells	0
Missing cells (%)	0.0%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	1.0 MiB
Average record size in memory	72.0 B

Based on panda-profiling.

There are 14688 observations with 8 variables to work on.

Right now, only "Indicators" columns have one value.

Variable types

Numeric	2
Categorical	6

Quantile statistics (VALUE)

Minimum	10.16
5-th percentile	16.49
Q1	21.72
median	26.7
Q3	32.1
95-th percentile	43.803
Maximum	75.37
Range	65.21
Interquartile range (IQR)	10.38

Descriptive statistics (VALUE)

Standard deviation	8.6017205
Coefficient of variation (CV)	0.30912962
Kurtosis	2.1712535
Mean	27.825611
Median Absolute Deviation (MAD)	5.16
Skewness	1.1323432
Sum	408702.58
Variance	73.989596
Monotonicity	Not monotonic

Histogram (VALUE)
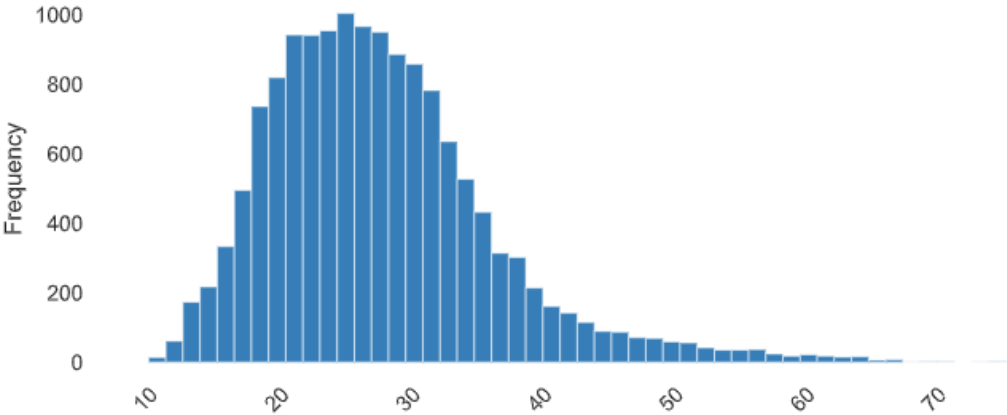
Histogram with fixed size bins (bins=50)

Average weekly hours worked,

Dataset statistics

Number of variables	8
Number of observations	14688
Missing cells	0
Missing cells (%)	0.0%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	1.0 MiB
Average record size in memory	72.0 B

Based on panda-profiling.

There are 14688 observations with 8 variables to work on.

Right now, only "Indicators" columns have one value.

Variable types

Numeric	2
Categorical	6

Quantile statistics (VALUE)

Minimum	9
5-th percentile	19
Q1	28
median	31
Q3	33
95-th percentile	36
Maximum	48
Range	39
Interquartile range (IQR)	5

Descriptive statistics (VALUE)

Standard deviation	4.8668895
Coefficient of variation (CV)	0.16314453
Kurtosis	1.2775213
Mean	29.831767
Median Absolute Deviation (MAD)	2
Skewness	-0.9985335
Sum	438169
Variance	23.686614
Monotonicity	Not monotonic

Histogram (VALUE)
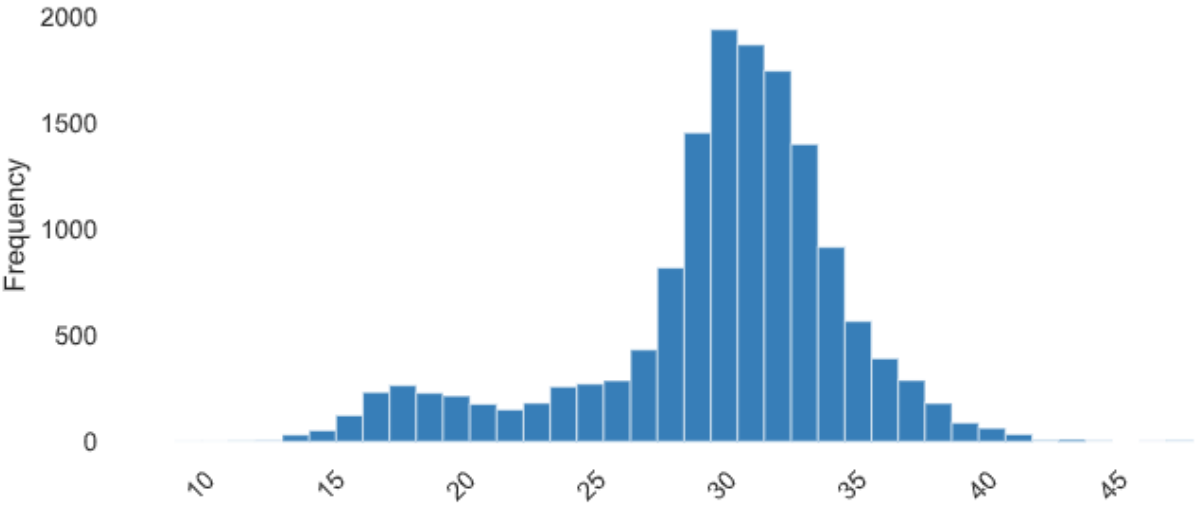
Histogram with fixed size bins (bins=38)

Hours worked

Dataset statistics

Number of variables	**8**
Number of observations	**14688**
Missing cells	0
Missing cells (%)	0.0%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	1.0 MiB
Average record size in memory	72.0 B

Variable types

Numeric	2
Categorical	6

Based on panda-profiling.

There are 14688 observations with 8 variables to work on.

Right now, only "Indicators" columns have one value.

The data is skew toward left. I may not use this data afterward.

Quantile statistics (VALUE)

Minimum	**6**
5-th percentile	128
Q1	1193.25
median	**9586.5**
Q3	55182.25
95-th percentile	377969.4
Maximum	**3857813**
Range	3857807
Interquartile range (IQR)	53989

Descriptive statistics (VALUE)

Standard deviation	253684.45
Coefficient of variation (CV)	3.0346138
Kurtosis	66.631407
Mean	**83596.946**
Median Absolute Deviation (MAD)	9323.5
Skewness	**7.1113237**
Sum	1.2278719×10^9
Variance	6.43558×10^{10}
Monotonicity	Not monotonic

Histogram (VALUE)

Value gear extremely toward left. As a result, I have added common values to analysis.

Histogram with fixed size bins (bins=50)
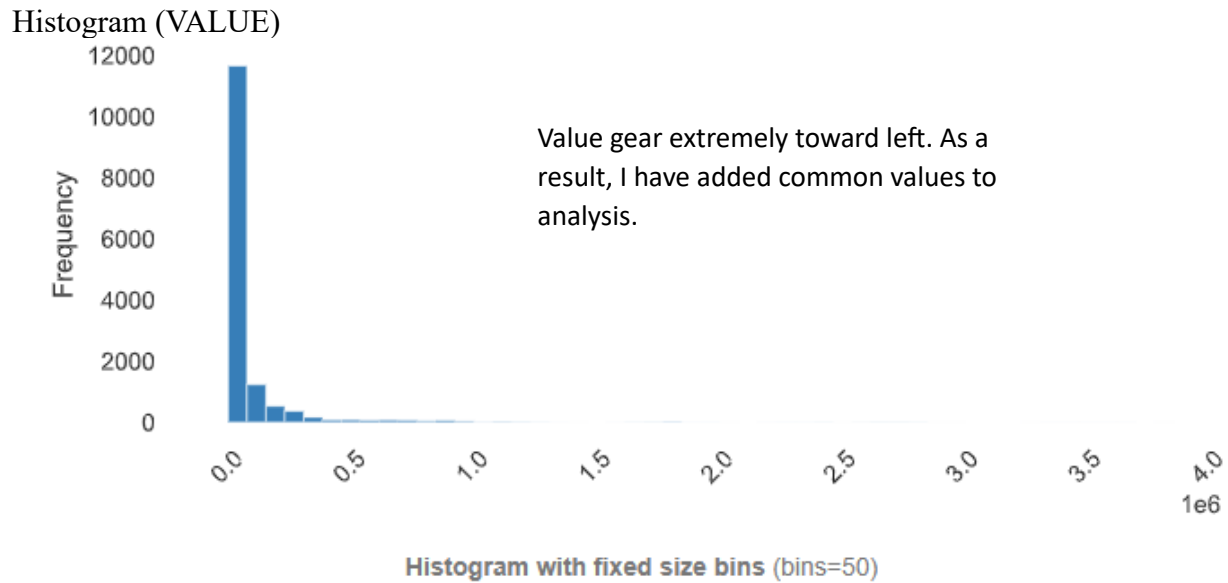
Common Value for "hours worked".

Value	Count	Frequency (%)
37	20	0.1%
32	16	0.1%
29	14	0.1%
41	14	0.1%
54	13	0.1%
30	13	0.1%
143	12	0.1%
52	12	0.1%
262	11	0.1%
33	11	0.1%
Other values (10999)	14552	99.1%

I noticed in this section, there's a lot of extreme value in this dataset. Common value that are find in this dataset are range between 29 to 54 hours. Some worked for 6 hours while some worked at more than 370000 hours.

Number of Jobs

Dataset statistics

Number of variables	8
Number of observations	14688
Missing cells	0
Missing cells (%)	0.0%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	1.0 MiB
Average record size in memory	72.0 B

Variable types

Numeric	2
Categorical	6

Quantile statistics (VALUE)

Minimum	11
5-th percentile	88
Q1	784
median	6305.5
Q3	35604.75
95-th percentile	243204.7
Maximum	2428289
Range	2428278
Interquartile range (IQR)	34820.75

Descriptive statistics (VALUE)

Standard deviation	161120.81
Coefficient of variation (CV)	3.0149252
Kurtosis	67.384586
Mean	53441.062
Median Absolute Deviation (MAD)	6127.5
Skewness	7.1394116
Sum	7.8494232 × 108
Variance	2.5959914 × 1010
Monotonicity	Not monotonic

Based on panda-profiling.

There are 14688 observations with 8 variables to work on.

Right now, only "Indicators" columns have one value.

The data is skew toward left. For the purpose of this analysis, I will keep this value for time being.
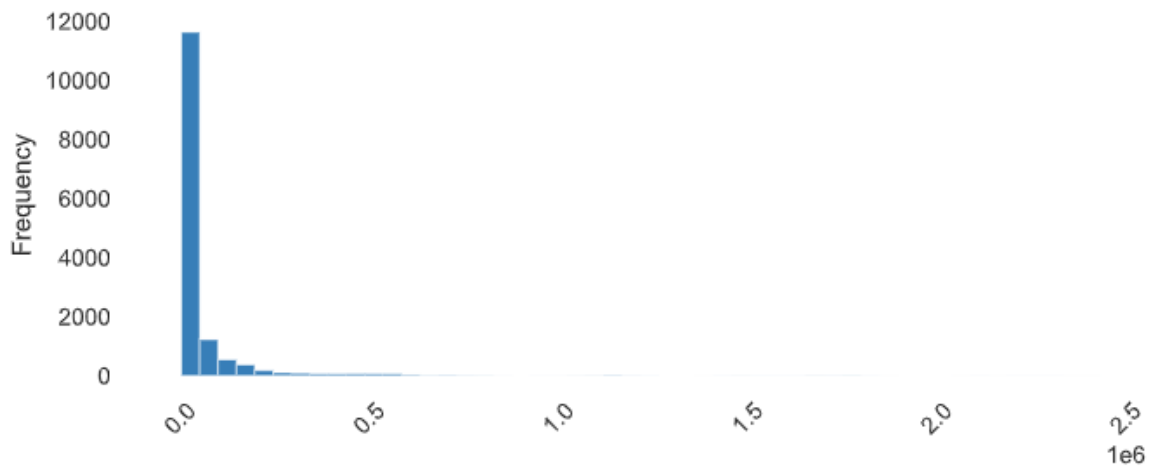
Histogram (VALUE)

Histogram with fixed size bins (bins=50)

Common Values in VALUE

Value	Count	Frequency (%)
18	23	0.2%
36	21	0.1%
22	21	0.1%
23	20	0.1%
17	18	0.1%
129	17	0.1%
20	16	0.1%
25	15	0.1%
92	15	0.1%
29	15	0.1%
Other values (10278)	14507	98.8%

Common Values in the number of jobs in non-profit organizations range from 18 to 36 available.

Wages and Salaries

Dataset statistics

Number of variables	8
Number of observations	14688
Missing cells	0
Missing cells (%)	0.0%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	1.0 MiB
Average record size in memory	72.0 B

Variable types

Numeric	2
Categorical	6

Quantile statistics (VALUE)

Minimum	0
5-th percentile	4
Q1	31
median	224
Q3	1455.25
95-th percentile	11603.3
Maximum	132601
Range	132601
Interquartile range (IQR)	1424.25

Descriptive statistics (VALUE)

Standard deviation	7977.4414
Coefficient of variation (CV)	3.2103436
Kurtosis	69.63355
Mean	2484.9182
Median Absolute Deviation (MAD)	217
Skewness	7.3257394
Sum	36498479
Variance	63639571
Monotonicity	Not monotonic

Based on panda-profiling.

There are 14688 observations with 8 variables to work on.

Right now, only "Indicators" columns have one value.

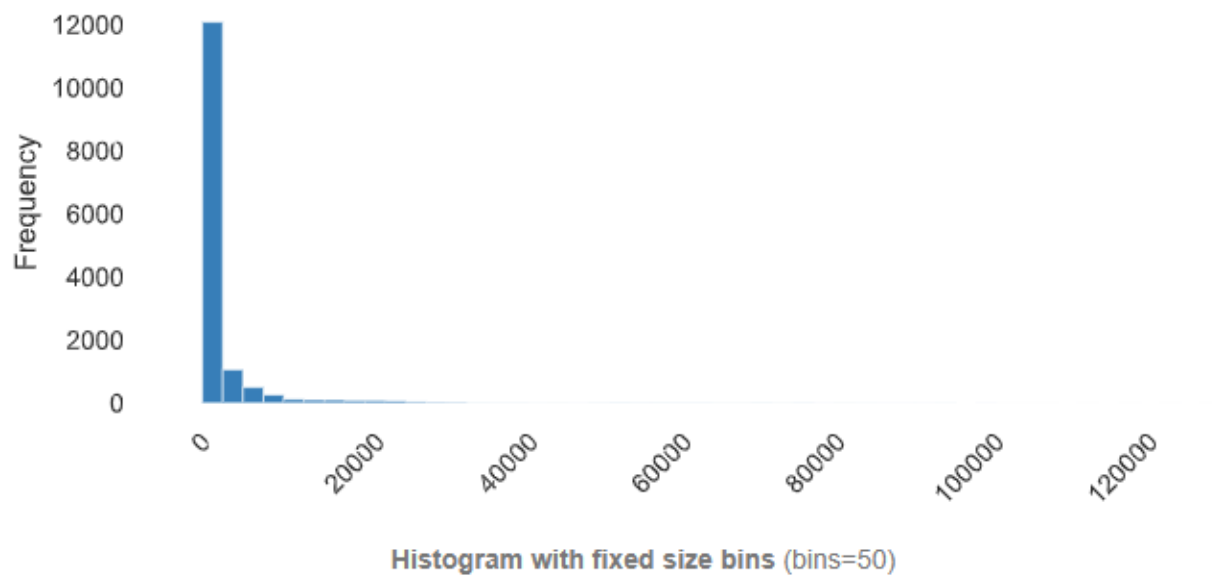The data is skew toward left. I may not use this data afterward.

Histogram (VALUE)

Histogram with fixed size bins (bins=50)

Common values inside Wage and Salaries

Value	Count	Frequency (%)
2	299	2.0%
1	219	1.5%
4	203	1.4%
3	201	1.4%
8	179	1.2%
5	157	1.1%
12	148	1.0%
6	146	1.0%
9	143	1.0%
11	141	1.0%
Other values (4328)	12852	87.5%

The most common wages and salaries in non-profit organizations range between $1 to $12.

For Average annual hours worked,

Dataset statistics

	Before 2015	After 2016
Number of variables	**8**	**8**
Number of observations	**7344**	**7344**
Missing cells	0	0
Missing cells (%)	0.0%	0.0%
Duplicate rows	0	0
Duplicate rows (%)	0.0%	0.0%
Total size in memory	516.4 KiB	516.4 KiB
Average record size in memory	72.0 B	72.0 B

Based on panda-profiling.

There are 7344 observations (and 8 variables) in each dataset.

Right now, only "Indicators" columns have one value.

Before 2015 contains years from 2010 to 2015.

After 2016 contains years from 2016 to 2021.

Variable types

	Before 2015	After 2016
Numeric	2	2
Categorical	6	6

Quantile statistics (VALUE)

	Before 2015	After 2016
Minimum	**462**	**565**
5-th percentile	955	984
Q1	1485	1474
median	**1601**	**1583**
Q3	1710	1687
95-th percentile	1903	1874
Maximum	**2500**	**2458**
Range	2038	1893
Interquartile range (IQR)	225	213

Descriptive statistics (VALUE)

	Before 2015	After 2016
Standard deviation	259.9023	245.29658
Coefficient of variation (CV)	0.16680782	0.15879083
Kurtosis	1.302456	1.282572
Mean	**1558.0942**	**1544.7781**
Median Absolute Deviation (MAD)	112	106
Skewness	**-1.0309417**	**-0.9787695**
Sum	11442644	11344850
Variance	67549.207	60170.413
Monotonicity	Not monotonic	Not monotonic

The histogram of both graph look similar to before splitting the dataset.

For Average annual wages and salaries,

Dataset statistics

	Before 2015	After 2016
Number of variables	**8**	**8**
Number of observations	**7344**	**7344**
Missing cells	0	0
Missing cells (%)	0.0%	0.0%
Duplicate rows	0	0
Duplicate rows (%)	0.0%	0.0%
Total size in memory	516.4 KiB	516.4 KiB
Average record size in memory	72.0 B	72.0 B

Based on panda-profiling.

There are 7344 observations (and 8 variables) in each dataset.

Right now, only "Indicators" columns have one value.

Before 2015 contains years from 2010 to 2015.

After 2016 contains years from 2016 to 2021.

Variable types

	Both before/after
Numeric	2
Categorical	6

Quantile statistics (VALUE)

	Before 2015	After 2016
Minimum	**8769**	**9794**
5-th percentile	17497.45	20968.15
Q1	30778	35232
median	**39670**	**44914**
Q3	49235	55043.5
95-th percentile	69496.8	75988.75
Maximum	**128745**	**133071**
Range	119976	123277
Interquartile range (IQR)	18457	19811.5

Descriptive statistics (VALUE)

	Before 2015	After 2016
Standard deviation	15783.428	17019.612
Coefficient of variation (CV)	0.38323028	0.36660972
Kurtosis	2.0373328	1.9164284
Mean	**41185.232**	**46424.334**
Median Absolute Deviation (MAD)	9193	9898.5
Skewness	**0.94069942**	**0.89246706**
Sum	3.0246434×10^8	3.4094031×10^8
Variance	2.491166×10^8	2.8966719×10^8
Monotonicity	Not monotonic	Not monotonic

Histogram look similar to before the split.

For Average hourly wages,

Dataset statistics

	Before 2015	After 2016
Number of variables	**8**	**8**
Number of observations	**7344**	**7344**
Missing cells	0	0
Missing cells (%)	0.0%	0.0%
Duplicate rows	0	0
Duplicate rows (%)	0.0%	0.0%
Total size in memory	516.4 KiB	516.4 KiB
Average record size in memory	72.0 B	72.0 B

Based on panda-profiling.

There are 7344 observations (and 8 variables) in each dataset.

Right now, only "Indicators" columns have one value.

Before 2015 contains years from 2010 to 2015.

After 2016 contains years from 2016 to 2021.

Variable types

Numeric	2
Categorical	6

Quantile statistics (VALUE)

	Before 2015	After 2016
Minimum	**10.16**	**12.66**
5-th percentile	15.5815	18.2515
Q1	20.28	23.42
median	**24.995**	**28.52**
Q3	30.11	33.87
95-th percentile	40.4785	46.5485
Maximum	**75.37**	**69.52**
Range	65.21	56.86
Interquartile range (IQR)	9.83	10.45

Descriptive statistics (VALUE)

	Before 2015	After 2016
Standard deviation	8.1431016	8.6771918
Coefficient of variation (CV)	0.31272826	0.29302643
Kurtosis	3.255443	1.6883579
Mean	**26.038905**	**29.612318**
Median Absolute Deviation (MAD)	4.895	5.21
Skewness	**1.3133858**	**1.047348**
Sum	191229.72	217472.86
Variance	66.310103	75.293658
Monotonicity	Not monotonic	Not monotonic

Average weekly hours worked,

Dataset statistics

	Before 2015	After 2016
Number of variables	**8**	**8**
Number of observations	**7344**	**7344**
Missing cells	0	0
Missing cells (%)	0.0%	0.0%
Duplicate rows	0	0
Duplicate rows (%)	0.0%	0.0%
Total size in memory	516.4 KiB	516.4 KiB
Average record size in memory	72.0 B	72.0 B

Based on panda-profiling.

There are 7344 observations (and 8 variables) in each dataset.

Right now, only "Indicators" columns have one value.

Before 2015 contains years from 2010 to 2015.

After 2016 contains years from 2016 to 2021.

Variable types

Numeric	2
Categorical	6

Quantile statistics (VALUE)

	Before 2015	After 2016
Minimum	**9**	**11**
5-th percentile	18	19
Q1	29	28
median	**31**	**30**
Q3	33	32
95-th percentile	37	36
Maximum	**48**	**47**
Range	39	36
Interquartile range (IQR)	4	4

Descriptive statistics (VALUE)

	Before 2015	After 2016
Standard deviation	5.0046573	4.7217809
Coefficient of variation (CV)	0.16702584	0.15898165
Kurtosis	1.2835471	1.2703969
Mean	**29.963371**	**29.700163**
Median Absolute Deviation (MAD)	2	2
Skewness	**-1.0242571**	**-0.9780799**
Sum	220051	218118
Variance	25.046595	22.295214
Monotonicity	Not monotonic	Not monotonic

Hours worked

Dataset statistics

	Before 2015	After 2016
Number of variables	**8**	**8**
Number of observations	**7344**	**7344**
Missing cells	0	0
Missing cells (%)	0.0%	0.0%
Duplicate rows	0	0
Duplicate rows (%)	0.0%	0.0%
Total size in memory	516.4 KiB	516.4 KiB
Average record size in memory	72.0 B	72.0 B

Based on panda-profiling.

There are 7344 observations (and 8 variables) in each dataset.

Right now, only "Indicators" columns have one value.

Before 2015 contains years from 2010 to 2015.

After 2016 contains years from 2016 to 2021.

Variable types

Numeric	2
Categorical	6

Quantile statistics (VALUE)

	Before 2015	After 2016
Minimum	**6**	**15**
5-th percentile	122	135
Q1	1105.75	1271
median	**9046**	**10199.5**
Q3	52676	58301
95-th percentile	363839.85	407412.35
Maximum	**3487265**	**3857813**
Range	3487259	3857798
Interquartile range (IQR)	51570.25	57030

Descriptive statistics (VALUE)

	Before 2015	After 2016
Standard deviation	244239.05	262761.72
Coefficient of variation (CV)	3.0477164	3.0183237
Kurtosis	67.093923	65.6558
Mean	**80138.377**	**87055.515**
Median Absolute Deviation (MAD)	8805	9906
Skewness	**7.1463337**	**7.0571517**
Sum	5.8853624×10^8	6.393357×10^8
Variance	5.9652713×10^{10}	6.9043724×10^{10}
Monotonicity	Not monotonic	Not monotonic

Common values for each dataset are between 30 to 300.

Number of Jobs

Dataset statistics

	Before 2015	After 2016
Number of variables	**8**	**8**
Number of observations	**7344**	**7344**
Missing cells	0	0
Missing cells (%)	0.0%	0.0%
Duplicate rows	0	0
Duplicate rows (%)	0.0%	0.0%
Total size in memory	774.4 KiB	774.4 KiB
Average record size in memory	108.0 B	108.0 B

Based on panda-profiling.

There are 7344 observations (and 8 variables) in each dataset.

Right now, only "Indicators" columns have one value.

Before 2015 contains years from 2010 to 2015.

After 2016 contains years from 2016 to 2021.

Variable types

Numeric	2
Categorical	6

Quantile statistics (VALUE)

	Before 2015	After 2016
Minimum	**11**	**12**
5-th percentile	82	92
Q1	724	837.75
median	**5897**	**6744**
Q3	33889.75	36867.5
95-th percentile	230034.65	259901.5
Maximum	**2227898**	**2428289**
Range	2227887	2428277
Interquartile range (IQR)	33165.75	36029.75

Descriptive statistics (VALUE)

	Below 2015	After 2016
Standard deviation	154971.3	167021.73
Coefficient of variation (CV)	3.032973	2.9939389
Kurtosis	67.911058	66.327939
Mean	**51095.507**	**55786.618**
Median Absolute Deviation (MAD)	5738	6542.5
Skewness	**7.1804941**	**7.0792603**
Sum	3.7524541×10^8	4.0969692×10^8
Variance	2.4016103×10^{10}	2.7896257×10^{10}
Monotonicity	Not monotonic	Not monotonic

Common values in this range are 14 to 240 jobs available.

Wages and Salaries

Dataset statistics

	Before 2015	After 2016
Number of variables	**8**	**8**
Number of observations	**7344**	**7344**
Missing cells	0	0
Missing cells (%)	0.0%	0.0%
Duplicate rows	0	0
Duplicate rows (%)	0.0%	0.0%
Total size in memory	774.4 KiB	774.4 KiB
Average record size in memory	108.0 B	108.0 B

Based on panda-profiling.

There are 7344 observations (and 8 variables) in each dataset.

Right now, only "Indicators" columns have one value.

Before 2015 contains years from 2010 to 2015.

After 2016 contains years from 2016 to 2021.

Variable types

Numeric	2
Categorical	6

Quantile statistics (VALUE)

	Before 2015	After 2016
Minimum	**0**	**0**
5-th percentile	3	4
Q1	27	35
median	**200.5**	**248**
Q3	1291.25	1643.75
95-th percentile	10560.2	13224.45
Maximum	**104965**	**132601**
Range	104965	132601
Interquartile range (IQR)	1264.25	1608.75

Descriptive statistics (VALUE)

	Before 2015	After 2016
Standard deviation	7159.6734	8711.5702
Coefficient of variation (CV)	3.2182432	3.1734733
Kurtosis	67.4295	66.678229
Mean	**2224.7149**	**2745.1216**
Median Absolute Deviation (MAD)	194.5	241
Skewness	**7.2634175**	**7.1918984**
Sum	16338306	20160173
Variance	51260924	75891455
Monotonicity	Not monotonic	Not monotonic

The total observation in divided datasets contains 7344 observations. Next steps, I will analysis

will be divided once again into three datasets, 2016-2017, 2018-2019, 2020-2021.

For Average annual hours worked,

```
grouped = df_AvgAnnHrsWrk_2016.groupby(['REF_DATE'])
print(grouped['VALUE'].agg([np.sum, np.size])) …
```

```
              sum   size
REF_DATE
2016      1899738.0  1224
2017      1881389.0  1224
              sum   size
REF_DATE
2018      1894227.0  1224
2019      1894126.0  1224
              sum   size
REF_DATE
2020      1873544.0  1224
2021      1901826.0  1224
```

Based on panda-profiling.

There are 2448 observations (and 8 variables) in each dataset.
- 7 Categorical
- 1 Numeric

Right now, only "Indicators" columns have one value and only "DATE" column has two values.

Dataset split into 2016-2017, 2018-2019, 2020-2021 based from "above 2016" dataset.

Quantile statistics (VALUE)

	2016-2017	2018-2019	2020-2021
Minimum	**691**	**610**	**565**
5-th percentile	967	983.35	1003.35
Q1	1469	1477	1474
median	**1580.5**	**1586**	**1583**
Q3	1695	1688	1679.25
95-th percentile	1879.65	1875.65	1864.65
Maximum	**2458**	**2286**	**2250**
Range	1767	1676	1685
Interquartile range (IQR)	226	211	205.25

Descriptive statistics (VALUE)

	2016-2017	2018-2019	2020-2021
Standard deviation	249.89506	245.50325	240.47224
Coefficient of variation (CV)	0.16178856	0.15864202	0.15592539
Kurtosis	1.2548004	1.2617194	1.3382614
Mean	**1544.578**	**1547.5298**	**1542.2263**
Median Absolute Deviation (MAD)	112.5	103.5	101
Skewness	**-0.94386446**	**-0.99792932**	**-0.99929663**
Sum	3781127	3788353	3775370
Variance	62447.54	60271.848	57826.899
Monotonicity	Not monotonic	Not monotonic	Not monotonic

For Average annual wages and salaries,

```
grouped = df_AvgAnnWages_2016.groupby(['REF_DATE'])
print(grouped['VALUE'].agg([np.sum, np.size])) …

Grabbing the data from 2017, 2019, and 2021.
                sum  size
REF_DATE
2016      53166285.0  1224
2017      53965359.0  1224
                sum  size
REF_DATE
2018      55525920.0  1224
2019      56997121.0  1224
                sum  size
REF_DATE
2020      60597775.0  1224
2021      60687848.0  1224
```

Based on panda-profiling.

There are 2448 observations (and 8 variables) in each dataset.
- 7 Categorical
- 1 Numeric

Right now, only "Indicators" columns have one value and only "DATE" column has two values.

Dataset split into 2016-2017, 2018-2019, 2020-2021 based from "above 2016" dataset.

Quantile statistics (VALUE)

	2016-2017	2018-2019	2020-2021
Minimum	**9794**	**10950**	**12420**
5-th percentile	19513.1	20789.05	23228.65
Q1	33278.75	34936.5	38394.75
median	**42151**	**44337**	**48066**
Q3	51984.75	54580.75	57894.75
95-th percentile	72065.45	75453.9	79738.2
Maximum	**112032**	**118314**	**133071**
Range	102238	107364	120651
Interquartile range (IQR)	18706	19644.25	19500

Descriptive statistics (VALUE)

	2016-2017	2018-2019	2020-2021
Standard deviation	16088.453	16813.519	17625.767
Coefficient of variation (CV)	0.36762744	0.36578725	0.35575427
Kurtosis	1.7812658	1.8070219	2.0655445
Mean	**43762.926**	**45965.295**	**49544.781**
Median Absolute Deviation (MAD)	9410.5	9783.5	9767
Skewness	**0.86538991**	**0.87498071**	**0.9101343**
Sum	1.0713164×10^8	1.1252304×10^8	1.2128562×10^8
Variance	2.5883831×10^8	2.8269441×10^8	3.1066767×10^8
Monotonicity	Not monotonic	Not monotonic	Not monotonic

For Average hourly wages,

```
grouped = df_AvgHrsWages_2016.groupby(['REF_DATE'])
print(grouped['VALUE'].agg([np.sum, np.size]))
```

Grabbing the data from 2017, 2019, and 2021.

```
            sum   size
REF_DATE
2016      33756.84   1224
2017      34571.41   1224
            sum   size
REF_DATE
2018      35356.16   1224
2019      36293.34   1224
            sum   size
REF_DATE
2020      38980.38   1224
2021      38514.73   1224
```

Based on panda-profiling.

There are 2448 observations (and 8 variables) in each dataset.
- 7 Categorical
- 1 Numeric

Right now, only "Indicators" columns have one value and only "DATE" column has two values.

Dataset split into 2016-2017, 2018-2019, 2020-2021 based from "above 2016" dataset.

Quantile statistics (VALUE)

	2016-2017	2018-2019	2020-2021
Minimum	12.66	12.69	13.66
5-th percentile	17.23	18.1435	19.847
Q1	22.1675	23.25	25.4
median	26.87	28.14	30.75
Q3	31.8125	33.4625	36.0325
95-th percentile	43.56	46.4775	49.1365
Maximum	66.29	66.1	69.52
Range	53.63	53.41	55.86
Interquartile range (IQR)	9.645	10.2125	10.6325

Descriptive statistics (VALUE)

	2016-2017	2018-2019	2020-2021
Standard deviation	8.2516699	8.5756293	8.7817846
Coefficient of variation (CV)	0.29563303	0.29299773	0.27740858
Kurtosis	2.2994465	1.7446278	1.4489444
Mean	27.911867	29.268587	31.656499
Median Absolute Deviation (MAD)	4.835	5.13	5.32
Skewness	1.1808823	1.0730783	0.97581894
Sum	68328.25	71649.5	77495.11
Variance	68.090055	73.541418	77.11974
Monotonicity	Not monotonic	Not monotonic	Not monotonic

Average weekly hours worked,

```
grouped = df_AvgWeekHrsWrked_2016.groupby(['REF_DATE'])
print(grouped['VALUE'].agg([np.sum, np.size]))
```

Grabbing the data from 2017, 2019, and 2021.

```
            sum   size
REF_DATE
2016      36541.0  1224
2017      36170.0  1224
            sum   size
REF_DATE
2018      36416.0  1224
2019      36400.0  1224
            sum   size
REF_DATE
2020      36036.0  1224
2021      36555.0  1224
```

Based on panda-profiling.

There are 2448 observations (and 8 variables) in each dataset.
- 7 Categorical
- 1 Numeric

Right now, only "Indicators" columns have one value and only "DATE" column has two values.

Dataset split into 2016-2017, 2018-2019, 2020-2021 based from "above 2016" dataset.

Quantile statistics (VALUE)

	2016-2017	2018-2019	2020-2021
Minimum	13	12	11
5-th percentile	19	19	19
Q1	28	28	28
median	30	30	30
Q3	33	32	32
95-th percentile	36	36	36
Maximum	47	44	43
Range	34	32	32
Interquartile range (IQR)	5	4	4

Descriptive statistics (VALUE)

	2016-2017	2018-2019	2020-2021
Standard deviation	4.8174653	4.7203332	4.6271067
Coefficient of variation (CV)	0.16219217	0.15869281	0.15604079
Kurtosis	1.235998	1.2585097	1.3224963
Mean	29.702206	29.745098	29.653186
Median Absolute Deviation (MAD)	2	2	2
Skewness	**-0.94253492**	**-0.99661397**	**-1.0001195**
Sum	72711	72816	72591
Variance	23.207972	22.281545	21.410117
Monotonicity	Not monotonic	Not monotonic	Not monotonic

Hours worked

```
grouped = df_Hrs_Wrked_2016.groupby(['REF_DATE'])
print(grouped['VALUE'].agg([np.sum, np.size])) …
```

Grabbing the data from 2017, 2019, and 2021.

```
              sum   size
REF_DATE
2016     103980992.0  1224
2017     103906357.0  1224
              sum   size
REF_DATE
2018     106885614.0  1224
2019     108384508.0  1224
              sum   size
REF_DATE
2020     103897606.0  1224
2021     112280627.0  1224
```

Based on panda-profiling.

There are 2448 observations (and 8 variables) in each dataset.
- 7 Categorical
- 1 Numeric

Right now, only "Indicators" columns have one value and only "DATE" column has two values.

Dataset split into 2016-2017, 2018-2019, 2020-2021 based from "above 2016" dataset.

Quantile statistics (VALUE)

	2016-2017	2018-2019	2020-2021
Minimum	15	20	20
5-th percentile	135	135.35	134.7
Q1	1242	1282	1294.75
median	10162	10565	10018
Q3	57225.75	59738.25	58040.75
95-th percentile	388410.6	411268.55	413074.9
Maximum	3556730	3690238	3857813
Range	3556715	3690218	3857793
Interquartile range (IQR)	55983.75	58456.25	56746

Descriptive statistics (VALUE)

	2016-2017	2018-2019	2020-2021
Standard deviation	255845.54	263773.66	268602.34
Coefficient of variation (CV)	3.0127368	2.9995706	3.04165
Kurtosis	65.811768	65.248381	65.842914
Mean	84921.303	87937.141	88308.102
Median Absolute Deviation (MAD)	9881.5	10259.5	9723
Skewness	**7.0605213**	**7.0237298**	**7.0812672**
Sum	2.0788735×10^8	2.1527012×10^8	2.1617823×10^8
Variance	6.5456938×10^{10}	6.9576544×10^{10}	7.2147217×10^{10}
Monotonicity	Not monotonic	Not monotonic	Not monotonic

Number of Jobs

```
grouped = df_NumOfJob_2016.groupby(['REF_DATE'])
print(grouped['VALUE'].agg([np.sum, np.size])) …
Grabbing the data from 2017, 2019, and 2021.
              sum   size
REF_DATE
2016     66578386.0   1224
2017     66979678.0   1224
              sum   size
REF_DATE
2018     68215341.0   1224
2019     69702012.0   1224
              sum   size
REF_DATE
2020     67249987.0   1224
2021     70971515.0   1224
```

Based on panda-profiling.

There are 2448 observations (and 8 variables) in each dataset.
-   7 Categorical
-   1 Numeric

Right now, only "Indicators" columns have one value and only "DATE" column has two values.

Dataset split into 2016-2017, 2018-2019, 2020-2021 based from "above 2016" dataset.

Quantile statistics (VALUE)

	2016-2017	2018-2019	2020-2021
Minimum	15	20	20
5-th percentile	135	135.35	134.7
Q1	1242	1282	1294.75
median	10162	10565	10018
Q3	57225.75	59738.25	58040.75
95-th percentile	388410.6	411268.55	413074.9
Maximum	3556730	3690238	3857813
Range	3556715	3690218	3857793
Interquartile range (IQR)	55983.75	58456.25	56746

Descriptive statistics (VALUE)

	2016-2017	2018-2019	2020-2021
Standard deviation	255845.54	263773.66	268602.34
Coefficient of variation (CV)	3.0127368	2.9995706	3.04165
Kurtosis	65.811768	65.248381	65.842914
Mean	84921.303	87937.141	88308.102
Median Absolute Deviation (MAD)	9881.5	10259.5	9723
Skewness	**7.0605213**	**7.0237298**	**7.0812672**
Sum	2.0788735×108	2.1527012×108	2.1617823×108
Variance	6.5456938×1010	6.9576544×1010	7.2147217×1010
Monotonicity	Not monotonic	Not monotonic	Not monotonic

Wages and Salaries

```
grouped = df_WagesAndSalaries_2016.groupby(['REF_DATE'])
print(grouped['VALUE'].agg([np.sum, np.size]))…
```

Grabbing the data from 2017, 2019, and 2021.

```
            sum    size
REF_DATE
2016    3043217.0   1224
2017    3118809.0   1224
            sum    size
REF_DATE
2018    3263527.0   1224
2019    3437480.0   1224
            sum    size
REF_DATE
2020    3532888.0   1224
2021    3764252.0   1224
```

Based on panda-profiling.

There are 2448 observations (and 8 variables) in each dataset.
  -   7 Categorical
  -   1 Numeric

Right now, only "Indicators" columns have one value and only "DATE" column has two values.

Dataset split into 2016-2017, 2018-2019, 2020-2021 based from "above 2016" dataset.

Quantile statistics (VALUE)

	2016-2017	2018-2019	2020-2021
Minimum	0	1	1
5-th percentile	4	4	5
Q1	32	35	38
median	231.5	248.5	266
Q3	1550.25	1668.5	1744
95-th percentile	12294.75	13429.85	14287.3
Maximum	109815	120743	132601
Range	109815	120742	132600
Interquartile range (IQR)	1518.25	1633.5	1706

Descriptive statistics (VALUE)

	2016-2017	2018-2019	2020-2021
Standard deviation	7972.8966	8631.8397	9463.2456
Coefficient of variation (CV)	3.1674081	3.1533684	3.1746719
Kurtosis	65.868972	65.349127	65.103434
Mean	2517.1675	2737.3395	2980.8578
Median Absolute Deviation (MAD)	224.5	241.5	258
Skewness	**7.1676066**	**7.1293141**	**7.1272901**
Sum	6162026	6701007	7297140
Variance	63567080	74508657	89553017
Monotonicity	Not monotonic	Not monotonic	Not monotonic

Average Annual Hours worked above 2016: (Order, Age group, Gender Group, Education level, and Immigrant status)

```
                               sum        mean      amin   median    amax   size
Characteristics
15 to 24 years         356025.0   927.148438    691.0    925.0  1281.0    384
25 to 34 years         670964.0  1597.533333   1292.0   1588.5  1967.0    420
35 to 44 years         745088.0  1774.019048   1424.0   1758.5  2156.0    420
45 to 54 years         770902.0  1835.480952   1541.0   1822.0  2312.0    420
55 to 64 years         702671.0  1673.026190   1377.0   1676.5  2071.0    420
65 years old and over  413188.0  1076.010417    565.0   1072.5  1424.0    384
Overall,
Sum :  3658838.0
Mean :  1494.623366013072
Min/median/max : 565.0 / 1637.5 / 2312.0
Skewnewss :  -0.5787733959786298
Total size :  2448


                          sum        mean      amin   median    amax   size
Characteristics
Female employees  645442.0  1536.766667   1260.0   1538.0  1773.0    420
Male employees    689850.0  1642.500000   1373.0   1648.5  1861.0    420
Overall,
Sum :  1335292.0
Mean :  1589.6333333333334
Min/median/max : 1260.0 / 1593.0 / 1861.0
Skewnewss :  -0.2787405505871734
Total size :  840
                                    sum        mean      amin   median    amax   size
Characteristics
High school diploma and less   552006.0  1314.300000   1054.0   1308.0  1667.0    420
Trade certificate              614163.0  1550.916667    789.0   1547.0  1833.0    396
University degree and higher   685459.0  1730.957071   1536.0   1709.0  2095.0    396
Overall,
Sum :  1851628.0
Mean :  1527.7458745874587
Min/median/max : 789.0 / 1545.5 / 2095.0
Skewnewss :  -0.13622242646984092
Total size :  1212
                               sum        mean      amin   median    amax   size
Characteristics
Immigrant employees       640410.0  1617.196970   1336.0   1590.5  2458.0    396
Non-immigrant employees   620418.0  1566.712121   1315.0   1565.5  1767.0    396
Overall,
Sum :  1260828.0
Mean :  1591.9545454545455
Min/median/max : 1315.0 / 1577.0 / 2458.0
Skewnewss :  2.060988959826731
Total size :  792
```

This is done directly via panda, numpy, and aggregation.

Average Annual Hours worked above 2016-2017:

Characteristics	sum	mean	amin	median	amax	size
15 to 24 years	116496.0	910.125000	691.0	915.0	1091.0	128
25 to 34 years	225135.0	1608.107143	1311.0	1599.5	1967.0	140
35 to 44 years	249085.0	1779.178571	1446.0	1758.0	2156.0	140
45 to 54 years	256996.0	1835.685714	1575.0	1816.5	2312.0	140
55 to 64 years	233519.0	1667.992857	1410.0	1677.0	2000.0	140
65 years old and over	137854.0	1076.984375	719.0	1070.5	1424.0	128

Overall,
Sum : 1219085.0
Mean : 1493.9767156862745
Min/median/max : 691.0 / 1640.5 / 2312.0
Skewnewss : -0.5703082688084871
Total size : 816

Characteristics	sum	mean	amin	median	amax	size
Female employees	214038.0	1528.842857	1260.0	1532.5	1740.0	140
Male employees	231452.0	1653.228571	1427.0	1655.0	1861.0	140

Overall,
Sum : 445490.0
Mean : 1591.0357142857142
Min/median/max : 1260.0 / 1592.0 / 1861.0
Skewnewss : -0.24592140589500588
Total size : 280

Characteristics	sum	mean	amin	median	amax	size
High school diploma and less	184072.0	1314.800000	1066.0	1307.0	1615.0	140
Trade certificate	205547.0	1557.174242	975.0	1546.0	1833.0	132
University degree and higher	229151.0	1735.992424	1563.0	1712.5	2095.0	132

Overall,
Sum : 618770.0
Mean : 1531.6089108910892
Min/median/max : 975.0 / 1544.5 / 2095.0
Skewnewss : -0.08472486126383535
Total size : 404

Characteristics	sum	mean	amin	median	amax	size
Immigrant employees	214796.0	1627.242424	1353.0	1593.0	2458.0	132
Non-immigrant employees	206550.0	1564.772727	1321.0	1557.5	1764.0	132

Overall,
Sum : 421346.0
Mean : 1596.0075757575758
Min/median/max : 1321.0 / 1574.0 / 2458.0
Skewnewss : 2.40000587696475
Total size : 264

Average Annual Hours worked 2018-2019:

Characteristics	sum	mean	amin	median	amax	size
15 to 24 years	119612.0	934.468750	703.0	928.5	1281.0	128
25 to 34 years	224023.0	1600.164286	1307.0	1589.5	1884.0	140
35 to 44 years	248812.0	1777.228571	1424.0	1762.0	2092.0	140
45 to 54 years	257922.0	1842.300000	1595.0	1828.5	2191.0	140
55 to 64 years	234537.0	1675.264286	1405.0	1676.5	1929.0	140
65 years old and over	137306.0	1072.703125	610.0	1066.0	1421.0	128

Overall,
Sum : 1222212.0
Mean : 1497.8088235294117
Min/median/max : 610.0 / 1643.0 / 2191.0
Skewnewss : -0.5805014322580639
Total size : 816

Characteristics	sum	mean	amin	median	amax	size
Female employees	215468.0	1539.057143	1295.0	1542.0	1719.0	140
Male employees	230285.0	1644.892857	1422.0	1649.5	1821.0	140

Overall,
Sum : 445753.0
Mean : 1591.975
Min/median/max : 1295.0 / 1591.0 / 1821.0
Skewnewss : -0.29536442898441656
Total size : 280

Characteristics	sum	mean	amin	median	amax	size
High school diploma and less	184598.0	1318.557143	1068.0	1312.5	1607.0	140
Trade certificate	204873.0	1552.068182	789.0	1550.5	1808.0	132
University degree and higher	228914.0	1734.196970	1571.0	1705.5	2043.0	132

Overall,
Sum : 618385.0
Mean : 1530.6559405940593
Min/median/max : 789.0 / 1548.5 / 2043.0
Skewnewss : -0.2193052212994611
Total size : 404

Characteristics	sum	mean	amin	median	amax	size
Immigrant employees	213402.0	1616.681818	1336.0	1593.0	2286.0	132
Non-immigrant employees	207253.0	1570.098485	1337.0	1569.0	1767.0	132

Overall,
Sum : 420655.0
Mean : 1593.3901515151515
Min/median/max : 1336.0 / 1576.0 / 2286.0
Skewnewss : 1.6641975448323307
Total size : 264

Average Annual Hours worked above 2020-2021:

Characteristics	sum	mean	amin	median	amax	size
15 to 24 years	119917.0	936.851562	713.0	931.5	1250.0	128
25 to 34 years	221806.0	1584.328571	1292.0	1575.5	1864.0	140
35 to 44 years	247191.0	1765.650000	1470.0	1757.5	2035.0	140
45 to 54 years	255984.0	1828.457143	1541.0	1826.5	2147.0	140
55 to 64 years	234615.0	1675.821429	1377.0	1673.5	2071.0	140
65 years old and over	138028.0	1078.343750	565.0	1081.0	1412.0	128

Overall,
Sum : 1217541.0
Mean : 1492.0845588235295
Min/median/max : 565.0 / 1629.5 / 2147.0
Skewnewss : -0.5888509135397088
Total size : 816

Characteristics	sum	mean	amin	median	amax	size
Female employees	215936.0	1542.400000	1328.0	1539.0	1773.0	140
Male employees	228113.0	1629.378571	1373.0	1640.5	1812.0	140

Overall,
Sum : 444049.0
Mean : 1585.8892857142857
Min/median/max : 1328.0 / 1597.0 / 1812.0
Skewnewss : -0.33380298174287687
Total size : 280

Characteristics	sum	mean	amin	median	amax	size
High school diploma and less	183336.0	1309.542857	1054.0	1308.0	1667.0	140
Trade certificate	203743.0	1543.507576	1160.0	1542.5	1767.0	132
University degree and higher	227394.0	1722.681818	1536.0	1708.5	2000.0	132

Overall,
Sum : 614473.0
Mean : 1520.9727722772277
Min/median/max : 1054.0 / 1538.0 / 2000.0
Skewnewss : -0.11419699213619512
Total size : 404

Characteristics	sum	mean	amin	median	amax	size
Immigrant employees	212212.0	1607.666667	1377.0	1589.0	2250.0	132
Non-immigrant employees	206615.0	1565.265152	1315.0	1571.0	1735.0	132

Overall,
Sum : 418827.0
Mean : 1586.465909090909
Min/median/max : 1315.0 / 1582.5 / 2250.0
Skewnewss : 1.7744094875822118
Total size : 264

Average annual wages and salaries above 2016:

Characteristics	sum	mean	amin	median	amax	size
15 to 24 years	6542437.0	17037.596354	9794.0	16067.0	45844.0	384
25 to 34 years	17433720.0	41508.857143	24832.0	40338.5	75429.0	420
35 to 44 years	23566264.0	56110.152381	36704.0	54759.5	95714.0	420
45 to 54 years	25872325.0	61600.773810	36047.0	60965.5	103580.0	420
55 to 64 years	24202767.0	57625.635714	30816.0	54007.5	133071.0	420
65 years old and over	13090349.0	34089.450521	17359.0	32292.0	76577.0	384

Overall,
Sum : 110707862.0
Mean : 45223.799836601305
Min/median/max : 9794.0 / 45000.0 / 133071.0
Skewnewss : 0.4724237358194394
Total size : 2448

Characteristics	sum	mean	amin	median \
High school diploma and less	13153741.0	31318.430952	15835.0	29678.5
Trade certificate	16491332.0	41644.777778	22892.0	40309.5
University degree and higher	24254026.0	61247.540404	37846.0	59374.5

Characteristics	amax	size
High school diploma and less	73020.0	420
Trade certificate	79053.0	396
University degree and higher	121264.0	396

Overall,
Sum : 53899099.0
Mean : 44471.20379537954
Min/median/max : 15835.0 / 41285.5 / 121264.0
Skewnewss : 1.3064213973639516
Total size : 1212

Characteristics	sum	mean	amin	median \
High school diploma and less	13153741.0	31318.430952	15835.0	29678.5
Trade certificate	16491332.0	41644.777778	22892.0	40309.5
University degree and higher	24254026.0	61247.540404	37846.0	59374.5

Characteristics	amax	size
High school diploma and less	73020.0	420
Trade certificate	79053.0	396
University degree and higher	121264.0	396

Overall,
Sum : 53899099.0
Mean : 44471.20379537954
Min/median/max : 15835.0 / 41285.5 / 121264.0
Skewnewss : 1.3064213973639516
Total size : 1212

	sum	mean	amin	median	amax	size
Characteristics						
Immigrant employees	18932138.0	47808.429293	20646.0	46914.5	104174.0	396
Non-immigrant employees	18753179.0	47356.512626	28408.0	46634.0	85472.0	396

Overall,
Sum : 37685317.0
Mean : 47582.47095959596
Min/median/max : 20646.0 / 46644.5 / 104174.0
Skewnewss : 1.027838912110412
Total size : 792

Average annual wages and salaries in 2016 - 2017:

	sum	mean	amin	median	amax
Characteristics					
15 to 24 years	1990551.0	15551.179688	9794.0	14257.0	34682.0
25 to 34 years	5482486.0	39160.614286	24832.0	38433.0	68600.0
35 to 44 years	7425644.0	53040.314286	36704.0	51669.5	89097.0
45 to 54 years	8070147.0	57643.907143	36047.0	56720.5	93975.0
55 to 64 years	7654420.0	54674.428571	30816.0	51979.5	105456.0
65 years old and over	4134140.0	32297.968750	17359.0	30124.5	73364.0

	size
Characteristics	
15 to 24 years	128
25 to 34 years	140
35 to 44 years	140
45 to 54 years	140
55 to 64 years	140
65 years old and over	128

Overall,
Sum : 34757388.0
Mean : 42594.83823529412
Min/median/max : 9794.0 / 41991.5 / 105456.0
Skewnewss : 0.4040730458561045
Total size : 816

	sum	mean	amin	median	amax	size
Characteristics						
Female employees	5828257.0	41630.407143	26523.0	40379.5	73710.0	140
Male employees	7204291.0	51459.221429	30293.0	50658.0	95519.0	140

Overall,
Sum : 13032548.0
Mean : 46544.81428571429
Min/median/max : 26523.0 / 45339.5 / 95519.0
Skewnewss : 0.8298629963797417
Total size : 280

	sum	mean	amin	median
Characteristics				
High school diploma and less	4098966.0	29278.328571	15835.0	27700.5
Trade certificate	5213635.0	39497.234848	22892.0	37634.0
University degree and higher	7707083.0	58386.992424	37846.0	56342.5

	amax	size
Characteristics		
High school diploma and less	54877.0	140
Trade certificate	79053.0	132
University degree and higher	112032.0	132

Overall,
Sum : 17019684.0
Mean : 42127.930693069306
Min/median/max : 15835.0 / 39338.5 / 112032.0
Skewnewss : 1.3779118455237946
Total size : 404

```
                             sum          mean      amin   median       amax  \
Characteristics
Immigrant employees      6015114.0  45569.045455  20646.0  43893.5  104174.0
Non-immigrant employees  5897525.0  44678.219697  28408.0  43215.0   79641.0


                         size
Characteristics
Immigrant employees       132
Non-immigrant employees   132
Overall,
Sum :  11912639.0
Mean :  45123.632575757576
Min/median/max : 20646.0 / 43305.5 / 104174.0
Skewnewss :  1.275481286812803
Total size :  264
```

Average annual wages and salaries in 2018 - 2019:

```
                              sum          mean      amin    median       amax  \
Characteristics
15 to 24 years            2177886.0  17014.734375  10950.0   15042.0   45844.0
25 to 34 years            5760914.0  41149.385714  26534.0   40145.5   69477.0
35 to 44 years            7776747.0  55548.192857  37336.0   54343.0   89890.0
45 to 54 years            8541521.0  61010.864286  38164.0   60493.5   96524.0
55 to 64 years            7997347.0  57123.907143  32686.0   53703.5  118314.0
65 years old and over     4286036.0  33484.656250  17667.0   31683.0   73480.0

                          size
Characteristics
15 to 24 years             128
25 to 34 years             140
35 to 44 years             140
45 to 54 years             140
55 to 64 years             140
65 years old and over      128
```
Overall,
Sum : 36540451.0
Mean : 44779.964460784315
Min/median/max : 10950.0 / 44547.5 / 118314.0
Skewnewss : 0.435257558284153
Total size : 816

```
                          sum          mean      amin    median      amax  size
Characteristics
Female employees    6213994.0  44385.671429  27460.0   42382.5  75519.0   140
Male employees      7451827.0  53227.335714  31693.0   52488.0  92832.0   140
```
Overall,
Sum : 13665821.0
Mean : 48806.50357142857
Min/median/max : 27460.0 / 47770.5 / 92832.0
Skewnewss : 0.7029202405707949
Total size : 280

```
                                   sum          mean      amin    median  \
Characteristics
High school diploma and less  4345328.0  31038.057143  16732.0   29299.0
Trade certificate             5415579.0  41027.113636  24444.0   39933.5
University degree and higher  8009192.0  60675.696970  38628.0   58448.5

                                 amax  size
Characteristics
High school diploma and less   57556.0   140
Trade certificate              72143.0   132
University degree and higher  114189.0   132
```
Overall,
Sum : 17770099.0
Mean : 43985.39356435643
Min/median/max : 16732.0 / 41113.0 / 114189.0
Skewnewss : 1.3503134205611609
Total size : 404

```
                            sum          mean      amin   median      amax  \
Characteristics
Immigrant employees     6220631.0  47125.992424  22154.0  46405.5  98880.0
Non-immigrant employees 6195241.0  46933.643939  29380.0  46003.0  80700.0


                        size
Characteristics
Immigrant employees      132
Non-immigrant employees  132
Overall,
Sum :  12415872.0
Mean :  47029.818181818184
Min/median/max : 22154.0 / 46302.0 / 98880.0
Skewnewss :  1.0107695555218565
Total size :  264
```

Average annual wages and salaries in 2020 - 2021:

Characteristics	sum	mean	amin	median	amax
15 to 24 years	2374000.0	18546.875000	12420.0	16943.0	36573.0
25 to 34 years	6190320.0	44216.571429	28338.0	43931.0	75429.0
35 to 44 years	8363873.0	59741.950000	37793.0	58400.5	95714.0
45 to 54 years	9260657.0	66147.550000	42283.0	65674.0	103580.0
55 to 64 years	8551000.0	61078.571429	37104.0	57244.0	133071.0
65 years old and over	4670173.0	36485.726562	20911.0	34856.0	76577.0

Characteristics	size
15 to 24 years	128
25 to 34 years	140
35 to 44 years	140
45 to 54 years	140
55 to 64 years	140
65 years old and over	128

Overall,
Sum : 39410023.0
Mean : 48296.59681372549
Min/median/max : 12420.0 / 47894.5 / 133071.0
Skewnewss : 0.4961826480753717
Total size : 816

Characteristics	sum	mean	amin	median	amax	size
Female employees	6777880.0	48413.428571	30353.0	47063.5	86432.0	140
Male employees	7986154.0	57043.957143	36430.0	56679.5	95273.0	140

Overall,
Sum : 14764034.0
Mean : 52728.69285714286
Min/median/max : 30353.0 / 51564.0 / 95273.0
Skewnewss : 0.7511729984483428
Total size : 280
2020

Characteristics	sum	mean	amin	median
High school diploma and less	4709447.0	33638.907143	20433.0	31521.5
Trade certificate	5862118.0	44409.984848	28260.0	43147.5
University degree and higher	8537751.0	64679.931818	39879.0	63608.5

Characteristics	amax	size
High school diploma and less	73020.0	140
Trade certificate	72854.0	132
University degree and higher	121264.0	132

Overall,
Sum : 19109316.0
Mean : 47300.28712871287
Min/median/max : 20433.0 / 43931.5 / 121264.0
Skewnewss : 1.2517071564272602
Total size : 404

```
                             sum         mean      amin   median     amax  \
Characteristics
Immigrant employees       6696393.0  50730.250000  26189.0  49991.0  98074.0
Non-immigrant employees   6660413.0  50457.674242  32922.0  50424.0  85472.0


                         size
Characteristics
Immigrant employees       132
Non-immigrant employees   132
Overall,
Sum :  13356806.0
Mean :  50593.96212121212
Min/median/max : 26189.0 / 50189.5 / 98074.0
Skewnewss :  0.9371046929026348
Total size :  264
```

Average hourly wage above 2016:

Characteristics	sum	mean	amin	median	amax	size
15 to 24 years	6994.48	18.214792	12.66	17.890	36.37	384
25 to 34 years	10974.13	26.128881	16.17	25.435	46.15	420
35 to 44 years	13366.72	31.825524	18.07	30.985	58.12	420
45 to 54 years	14156.40	33.705714	19.16	33.465	64.54	420
55 to 64 years	14410.56	34.310857	17.98	32.620	64.92	420
65 years old and over	12107.90	31.530990	17.79	30.510	66.63	384

Overall,
Sum : 72010.19
Mean : 29.4159272875817
Min/median/max : 12.66 / 28.855 / 66.63
Skewnewss : 0.8726051839114333
Total size : 2448

Characteristics	sum	mean	amin	median	amax	size
High school diploma and less	9949.53	23.689357	14.10	22.445	44.52	420
Trade certificate	10623.16	26.826162	16.93	25.855	44.58	396
University degree and higher	14035.82	35.443990	20.12	34.610	69.52	396

Overall,
Sum : 34608.51
Mean : 28.554876237623763
Min/median/max : 14.1 / 26.455 / 69.52
Skewnewss : 1.4087673073770433
Total size : 1212

Characteristics	sum	mean	amin	median	amax	size
High school diploma and less	9949.53	23.689357	14.10	22.445	44.52	420
Trade certificate	10623.16	26.826162	16.93	25.855	44.58	396
University degree and higher	14035.82	35.443990	20.12	34.610	69.52	396

Overall,
Sum : 34608.51
Mean : 28.554876237623763
Min/median/max : 14.1 / 26.455 / 69.52
Skewnewss : 1.4087673073770433
Total size : 1212

Characteristics	sum	mean	amin	median	amax	size
Immigrant employees	11626.43	29.359672	14.23	28.63	60.18	396
Non-immigrant employees	11993.52	30.286667	17.85	29.72	55.32	396

Overall,
Sum : 23619.950000000004
Mean : 29.8231691919192
Min/median/max : 14.23 / 29.21 / 60.18
Skewnewss : 0.8841544014149912
Total size : 792

Average hourly wage 2016 - 2017:

Characteristics	sum	mean	amin	median	amax	size
15 to 24 years	2169.70	16.950781	12.66	16.065	31.79	128
25 to 34 years	3429.39	24.495643	16.17	23.805	44.86	140
35 to 44 years	4201.33	30.009500	18.07	29.370	53.12	140
45 to 54 years	4410.74	31.505286	19.16	30.885	56.39	140
55 to 64 years	4579.86	32.713286	17.98	30.820	63.53	140
65 years old and over	3817.20	29.821875	17.79	28.260	61.79	128

Overall,
Sum : 22608.22
Mean : 27.706151960784315
Min/median/max : 12.66 / 27.25 / 63.53
Skewnewss : 0.9491940536760927
Total size : 816

Characteristics	sum	mean	amin	median	amax	size
Female employees	3813.29	27.237786	17.22	26.420	49.88	140
Male employees	4368.06	31.200429	17.48	30.135	57.05	140

Overall,
Sum : 8181.349999999999
Mean : 29.21910714285714
Min/median/max : 17.22 / 28.43 / 57.05
Skewnewss : 1.0375515016952999
Total size : 280

Characteristics	sum	mean	amin	median	amax	size
High school diploma and less	3096.93	22.120929	14.10	21.160	38.43	140
Trade certificate	3337.72	25.285758	16.93	24.295	44.18	132
University degree and higher	4448.97	33.704318	20.12	32.450	66.29	132

Overall,
Sum : 10883.62
Mean : 26.939653465346538
Min/median/max : 14.1 / 24.79 / 66.29
Skewnewss : 1.592579921339285
Total size : 404

Characteristics	sum	mean	amin	median	amax	size
Immigrant employees	3672.38	27.821061	14.23	26.225	57.56	132
Non-immigrant employees	3775.54	28.602576	17.85	27.700	52.15	132

Overall,
Sum : 7447.919999999999
Mean : 28.211818181818177
Min/median/max : 14.23 / 27.259999999999998 / 57.56
Skewnewss : 1.0566749038998275
Total size : 264

Average hourly wage 2018 - 2019:

	sum	mean	amin	median	amax	size
Characteristics						
15 to 24 years	2304.26	18.002031	12.69	16.770	35.78	128
25 to 34 years	3621.03	25.864500	16.24	25.480	46.15	140
35 to 44 years	4404.93	31.463786	18.52	30.610	53.93	140
45 to 54 years	4656.64	33.261714	20.52	33.135	58.33	140
55 to 64 years	4759.84	33.998857	18.56	32.005	62.46	140
65 years old and over	3969.91	31.014922	18.08	29.515	64.86	128

Overall,
Sum : 23716.61
Mean : 29.064473039215688
Min/median/max : 12.69 / 28.535 / 64.86
Skewnewss : 0.889506363020907
Total size : 816

	sum	mean	amin	median	amax	size
Characteristics						
Female employees	4040.52	28.860857	18.12	27.615	52.67	140
Male employees	4537.03	32.407357	18.21	31.655	54.58	140

Overall,
Sum : 8577.55
Mean : 30.63410714285714
Min/median/max : 18.12 / 29.805 / 54.58
Skewnewss : 0.8462901048212764
Total size : 280

	sum	mean	amin	median	amax	size
Characteristics						
High school diploma and less	3270.77	23.362643	14.68	22.150	39.70	140
Trade certificate	3484.41	26.397045	17.07	25.755	41.34	132
University degree and higher	4627.57	35.057348	20.72	34.365	66.10	132

Overall,
Sum : 11382.75
Mean : 28.175123762376238
Min/median/max : 14.68 / 25.945 / 66.1
Skewnewss : 1.499449262336067
Total size : 404

	sum	mean	amin	median	amax	size
Characteristics						
Immigrant employees	3821.30	28.949242	15.88	27.885	54.94	132
Non-immigrant employees	3953.58	29.951364	18.34	29.230	51.61	132

Overall,
Sum : 7774.88
Mean : 29.45030303030303
Min/median/max : 15.88 / 28.665 / 54.94
Skewnewss : 0.8729088197133255
Total size : 264

Average hourly wage 2020 - 2021:

```
                          sum       mean     amin  median   amax  size
Characteristics
15 to 24 years          2520.52  19.691562  13.66  19.045  36.37   128
25 to 34 years          3923.71  28.026500  18.06  27.620  45.91   140
35 to 44 years          4760.46  34.003286  21.16  33.110  58.12   140
45 to 54 years          5089.02  36.350143  23.00  35.835  64.54   140
55 to 64 years          5070.86  36.220429  21.49  34.520  64.92   140
65 years old and over   4320.79  33.756172  20.74  32.580  66.63   128
Overall,
Sum :  25685.36
Mean :  31.477156862745097
Min/median/max : 13.66 / 31.165 / 66.63
Skewnewss :  0.809569623358344
Total size :  816


                       sum       mean     amin  median   amax  size
Characteristics
Female employees     4391.48  31.367714  19.63  30.585  55.06   140
Male employees       4906.05  35.043214  21.96  34.105  56.59   140
Overall,
Sum :  9297.529999999999
Mean :  33.20546428571428
Min/median/max : 19.63 / 32.585 / 56.59
Skewnewss :  0.7515161769027425
Total size :  280


                                 sum       mean     amin  median   amax  size
Characteristics
High school diploma and less   3581.83  25.584500  17.22  24.600  44.52   140
Trade certificate              3801.03  28.795682  18.86  28.005  44.58   132
University degree and higher   4959.28  37.570303  23.71  36.810  69.52   132
Overall,
Sum :  12342.14
Mean :  30.549851485148512
Min/median/max : 17.22 / 28.369999999999997 / 69.52
Skewnewss :  1.2877268829235764
Total size :  404


                              sum       mean     amin  median   amax  size
Characteristics
Immigrant employees         4132.75  31.308712  18.79  30.695  60.18   132
Non-immigrant employees     4264.40  32.306061  20.88  31.705  55.32   132
Overall,
Sum :  8397.15
Mean :  31.80738636363636
Min/median/max : 18.79 / 31.09 / 60.18
Skewnewss :  0.8652855022472291
Total size :  264
```

Average weekly hours worked above 2016:

```
                             sum       mean   amin   median   amax   size
Characteristics
15 to 24 years            6852.0   17.843750   13.0     18.0   25.0    384
25 to 34 years           12902.0   30.719048   25.0     31.0   38.0    420
35 to 44 years           14324.0   34.104762   27.0     34.0   41.0    420
45 to 54 years           14821.0   35.288095   30.0     35.0   44.0    420
55 to 64 years           13513.0   32.173810   26.0     32.0   40.0    420
65 years old and over     7934.0   20.661458   11.0     21.0   27.0    384
Overall,
Sum :  70346.0
Mean :  28.73611111111111
Min/median/max : 11.0 / 31.0 / 44.0
Skewnewss :  -0.579043092502377
Total size :  2448


                                   sum       mean   amin   median   amax   size
Characteristics
High school diploma and less   10618.0   25.280952   20.0     25.0   32.0    420
Trade certificate              11811.0   29.825758   15.0     30.0   35.0    396
University degree and higher   13172.0   33.262626   30.0     33.0   40.0    396
Overall,
Sum :  35601.0
Mean :  29.373762376237625
Min/median/max : 15.0 / 30.0 / 40.0
Skewnewss :  -0.15087111730270117
Total size :  1212


                                   sum       mean   amin   median   amax   size
Characteristics
High school diploma and less   10618.0   25.280952   20.0     25.0   32.0    420
Trade certificate              11811.0   29.825758   15.0     30.0   35.0    396
University degree and higher   13172.0   33.262626   30.0     33.0   40.0    396
Overall,
Sum :  35601.0
Mean :  29.373762376237625
Min/median/max : 15.0 / 30.0 / 40.0
Skewnewss :  -0.15087111730270117
Total size :  1212


                               sum       mean   amin   median   amax   size
Characteristics
Immigrant employees         12318.0   31.106061   26.0     31.0   47.0    396
Non-immigrant employees     11929.0   30.123737   25.0     30.0   34.0    396
Overall,
Sum :  24247.0
Mean :  30.61489898989899
Min/median/max : 25.0 / 30.0 / 47.0
Skewnewss :  1.9996917423224188
Total size :  792
```

Average weekly hours worked in 2016 - 2017:

Characteristics	sum	mean	amin	median	amax	size
15 to 24 years	2240.0	17.500000	13.0	18.0	21.0	128
25 to 34 years	4334.0	30.957143	25.0	31.0	38.0	140
35 to 44 years	4789.0	34.207143	28.0	34.0	41.0	140
45 to 54 years	4940.0	35.285714	30.0	35.0	44.0	140
55 to 64 years	4493.0	32.092857	27.0	32.0	38.0	140
65 years old and over	2648.0	20.687500	14.0	21.0	27.0	128

Overall,
Sum : 23444.0
Mean : 28.730392156862745
Min/median/max : 13.0 / 32.0 / 44.0
Skewnewss : -0.5756109342508641
Total size : 816

Characteristics	sum	mean	amin	median	amax	size
Female employees	4115.0	29.392857	24.0	29.0	33.0	140
Male employees	4452.0	31.800000	27.0	32.0	36.0	140

Overall,
Sum : 8567.0
Mean : 30.59642857142857
Min/median/max : 24.0 / 31.0 / 36.0
Skewnewss : -0.2472492862682468
Total size : 280

Characteristics	sum	mean	amin	median	amax	size
High school diploma and less	3538.0	25.271429	20.0	25.0	31.0	140
Trade certificate	3950.0	29.924242	19.0	30.0	35.0	132
University degree and higher	4405.0	33.371212	30.0	33.0	40.0	132

Overall,
Sum : 11893.0
Mean : 29.43811881188119
Min/median/max : 19.0 / 30.0 / 40.0
Skewnewss : -0.088862131978932
Total size : 404

Characteristics	sum	mean	amin	median	amax	size
Immigrant employees	4130.0	31.287879	26.0	31.0	47.0	132
Non-immigrant employees	3976.0	30.121212	25.0	30.0	34.0	132

Overall,
Sum : 8106.0
Mean : 30.704545454545453
Min/median/max : 25.0 / 30.0 / 47.0
Skewnewss : 2.3304641046202303
Total size : 264

Average weekly hours worked 2018 - 2019:

```
                          sum       mean  amin  median  amax  size
Characteristics
15 to 24 years           2303.0  17.992188  14.0    18.0  25.0   128
25 to 34 years           4305.0  30.750000  25.0    31.0  36.0   140
35 to 44 years           4781.0  34.150000  27.0    34.0  40.0   140
45 to 54 years           4957.0  35.407143  31.0    35.0  42.0   140
55 to 64 years           4507.0  32.192857  27.0    32.0  37.0   140
65 years old and over    2635.0  20.585938  12.0    20.5  27.0   128
Overall,
Sum :  23488.0
Mean :  28.784313725490197
Min/median/max : 12.0 / 32.0 / 42.0
Skewnewss :  -0.5796949521070882
Total size :  816


                    sum       mean  amin  median  amax  size
Characteristics
Female employees  4138.0  29.557143  25.0    30.0  33.0   140
Male employees    4426.0  31.614286  27.0    32.0  35.0   140
Overall,
Sum :  8564.0
Mean :  30.585714285714285
Min/median/max : 25.0 / 31.0 / 35.0
Skewnewss :  -0.3242248402144738
Total size :  280


                               sum       mean  amin  median  amax  size
Characteristics
High school diploma and less  3553.0  25.378571  21.0    25.0  31.0   140
Trade certificate             3943.0  29.871212  15.0    30.0  35.0   132
University degree and higher  4399.0  33.325758  30.0    33.0  39.0   132
Overall,
Sum :  11895.0
Mean :  29.443069306930692
Min/median/max : 15.0 / 30.0 / 39.0
Skewnewss :  -0.23119711595027662
Total size :  404


                           sum       mean  amin  median  amax  size
Characteristics
Immigrant employees       4103.0  31.083333  26.0    31.0  44.0   132
Non-immigrant employees   3980.0  30.151515  26.0    30.0  34.0   132
Overall,
Sum :  8083.0
Mean :  30.617424242424242
Min/median/max : 26.0 / 30.0 / 44.0
Skewnewss :  1.5771345263060415
Total size :  264
```

Average weekly hours worked 2020 - 2021:

	sum	mean	amin	median	amax	size
Characteristics						
15 to 24 years	2309.0	18.039062	14.0	18.0	24.0	128
25 to 34 years	4263.0	30.450000	25.0	30.0	36.0	140
35 to 44 years	4754.0	33.957143	28.0	34.0	39.0	140
45 to 54 years	4924.0	35.171429	30.0	35.0	41.0	140
55 to 64 years	4513.0	32.235714	26.0	32.0	40.0	140
65 years old and over	2651.0	20.710938	11.0	21.0	27.0	128

Overall,
Sum : 23414.0
Mean : 28.693627450980394
Min/median/max : 11.0 / 31.0 / 41.0
Skewnewss : -0.5845841137219482
Total size : 816
2020

	sum	mean	amin	median	amax	size
Characteristics						
Female employees	4150.0	29.642857	26.0	30.0	34.0	140
Male employees	4380.0	31.285714	26.0	32.0	35.0	140

Overall,
Sum : 8530.0
Mean : 30.464285714285715
Min/median/max : 26.0 / 31.0 / 35.0
Skewnewss : -0.3715115707511629
Total size : 280

	sum	mean	amin	median	amax	size
Characteristics						
High school diploma and less	3527.0	25.192857	20.0	25.0	32.0	140
Trade certificate	3918.0	29.681818	22.0	30.0	34.0	132
University degree and higher	4368.0	33.090909	30.0	33.0	38.0	132

Overall,
Sum : 11813.0
Mean : 29.24009900990099
Min/median/max : 20.0 / 30.0 / 38.0
Skewnewss : -0.14812476676715253
Total size : 404

	sum	mean	amin	median	amax	size
Characteristics						
Immigrant employees	4085.0	30.946970	26.0	31.0	43.0	132
Non-immigrant employees	3973.0	30.098485	25.0	30.0	33.0	132

Overall,
Sum : 8058.0
Mean : 30.522727272727273
Min/median/max : 25.0 / 30.0 / 43.0
Skewnewss : 1.751178259080996
Total size : 264

Hours worked above 2016:

```
                             sum          mean   amin   median      amax  size
Characteristics
15 to 24 years          6343771.0  16520.236979   15.0    3969.5  228566.0   384
25 to 34 years         23153898.0  55128.328571   32.0    9952.5  888764.0   420
35 to 44 years         25066598.0  59682.376190   33.0   10825.0  971688.0   420
45 to 54 years         26044812.0  62011.457143   31.0   10857.5  966480.0   420
55 to 64 years         21112864.0  50268.723810   24.0    9001.0  794712.0   420
65 years old and over   4852862.0  12637.661458   27.0    2740.0  183461.0   384
Overall,
Sum :  106574805.0
Mean :  43535.45955882353
Min/median/max : 15.0 / 6349.0 / 971688.0
Skewnewss :  5.098080847484441
Total size :  2448
```

```
                                      sum          mean   amin   median  \
Characteristics
High school diploma and less  18771352.0   44693.695238   61.0   11601.5
Trade certificate              7007507.0   17695.724747   20.0    3239.5
University degree and higher  52867918.0  133504.843434   88.0   23067.0

                                   amax   size
Characteristics
High school diploma and less   658441.0    420
Trade certificate              263036.0    396
University degree and higher  2065714.0    396
Overall,
Sum :  78646777.0
Mean :  64890.0800330033
Min/median/max : 20.0 / 7960.5 / 2065714.0
Skewnewss :  6.459432018176126
Total size :  1212
```

```
                          sum          mean     amin   median       amax  \
Characteristics
Immigrant employees     27717240.0   69993.030303   42.0    7122.0   1084033.0
Non-immigrant employees 78844485.0  199102.234848  258.0   48202.5   2949643.0


                         size
Characteristics
Immigrant employees        396
Non-immigrant employees    396
Overall,
Sum :  106561725.0
Mean :  134547.63257575757
Min/median/max : 42.0 / 22388.5 / 2949643.0
Skewnewss :  5.214208507130157
Total size :  792
```

Hours worked in 2016 - 2017

	sum	mean	amin	median	amax	size
Characteristics						
15 to 24 years	2126833.0	16615.882812	15.0	4100.0	221797.0	128
25 to 34 years	7435634.0	53111.671429	41.0	9922.5	796225.0	140
35 to 44 years	7984128.0	57029.485714	39.0	10902.5	858618.0	140
45 to 54 years	8705384.0	62181.314286	33.0	11328.5	946775.0	140
55 to 64 years	6891298.0	49223.557143	24.0	9417.5	739603.0	140
65 years old and over	1510971.0	11804.460938	27.0	2626.5	158924.0	128

Overall,
Sum : 34654248.0
Mean : 42468.44117647059
Min/median/max : 15.0 / 6074.5 / 946775.0
Skewnewss : 5.092157844722735
Total size : 816

	sum	mean	amin	median	amax	size
Characteristics						
Female employees	23642516.0	168875.114286	67.0	28049.5	2556840.0	140
Male employees	11013142.0	78665.300000	82.0	15700.5	1151797.0	140

Overall,
Sum : 34655658.0
Mean : 123770.20714285714
Min/median/max : 67.0 / 20482.0 / 2556840.0
Skewnewss : 5.124183625151932
Total size : 280

	sum	mean	amin	median	\
Characteristics					
High school diploma and less	6302682.0	45019.157143	70.0	11567.5	
Trade certificate	2380713.0	18035.704545	22.0	3496.0	
University degree and higher	16706940.0	126567.727273	88.0	22557.5	

	amax	size
Characteristics		
High school diploma and less	648258.0	140
Trade certificate	263036.0	132
University degree and higher	1809897.0	132

Overall,
Sum : 25390335.0
Mean : 62847.36386138614
Min/median/max : 22.0 / 8101.0 / 1809897.0
Skewnewss : 6.3428675840764255
Total size : 404

```
                          sum            mean    amin   median       amax  \
Characteristics
Immigrant employees      8752253.0   66304.946970   42.0    6645.5   950520.0
Non-immigrant employees  25897643.0  196194.265152  263.0  48202.5  2770372.0


                          size
Characteristics
Immigrant employees        132
Non-immigrant employees    132
Overall,
Sum :  34649896.0
Mean :  131249.60606060605
Min/median/max : 42.0 / 21940.5 / 2770372.0
Skewnewss :  5.257070569011246
Total size :  264
```

Hours worked 2018 - 2019

Characteristics	sum	mean	amin	median	amax	size
15 to 24 years	2170475.0	16956.835938	31.0	4031.0	226610.0	128
25 to 34 years	7792788.0	55662.771429	38.0	10098.5	839497.0	140
35 to 44 years	8428390.0	60202.785714	37.0	11209.0	914365.0	140
45 to 54 years	8724392.0	62317.085714	34.0	11216.0	938630.0	140
55 to 64 years	7107758.0	50769.700000	27.0	9512.0	763618.0	140
65 years old and over	1661106.0	12977.390625	29.0	2950.0	175300.0	128

Overall,
Sum : 35884909.0
Mean : 43976.604166666664
Min/median/max : 27.0 / 6416.5 / 938630.0
Skewnewss : 5.06903376446393
Total size : 816

Characteristics	sum	mean	amin	median	amax	size
Female employees	24576390.0	175545.642857	64.0	29507.0	2667184.0	140
Male employees	11310068.0	80786.200000	78.0	15511.5	1188407.0	140

Overall,
Sum : 35886458.0
Mean : 128165.92142857143
Min/median/max : 64.0 / 20215.0 / 2667184.0
Skewnewss : 5.131551763860631
Total size : 280

Characteristics	sum	mean	amin	median \
High school diploma and less	6374060.0	45529.000000	68.0	11589.5
Trade certificate	2350725.0	17808.522727	20.0	3280.5
University degree and higher	17785037.0	134735.128788	92.0	23067.0

Characteristics	amax	size
High school diploma and less	652196.0	140
Trade certificate	256837.0	132
University degree and higher	1940127.0	132

Overall,
Sum : 26509822.0
Mean : 65618.37128712871
Min/median/max : 20.0 / 8232.0 / 1940127.0
Skewnewss : 6.416844728916569
Total size : 404

Characteristics	sum	mean	amin	median	amax \
Immigrant employees	9345235.0	70797.234848	45.0	7144.0	1020215.0
Non-immigrant employees	26535438.0	201026.045455	258.0	48317.0	2835375.0

Characteristics	size
Immigrant employees	132
Non-immigrant employees	132

```
Overall,
Sum :  35880673.0
Mean :  135911.64015151514
Min/median/max : 45.0 / 23548.5 / 2835375.0
Skewnewss :  5.207765938726964
Total size :  264
```

Hours worked 2020 - 2021

	sum	mean	amin	median	amax	size
Characteristics						
15 to 24 years	2046463.0	15987.992188	29.0	3848.0	228566.0	128
25 to 34 years	7925476.0	56610.542857	32.0	10102.0	888764.0	140
35 to 44 years	8654080.0	61814.857143	33.0	10588.5	971688.0	140
45 to 54 years	8615036.0	61535.971429	31.0	10271.5	966480.0	140
55 to 64 years	7113808.0	50812.914286	25.0	8842.5	794712.0	140
65 years old and over	1680785.0	13131.132812	30.0	2861.5	183461.0	128

Overall,
Sum : 36035648.0
Mean : 44161.333333333336
Min/median/max : 25.0 / 6410.0 / 971688.0
Skewnewss : 5.136772051526584
Total size : 816

	sum	mean	amin	median	amax	size
Characteristics						
Female employees	24829620.0	177354.428571	64.0	28332.5	2809860.0	140
Male employees	11207696.0	80054.971429	74.0	15656.5	1223817.0	140

Overall,
Sum : 36037316.0
Mean : 128704.7
Min/median/max : 64.0 / 20350.5 / 2809860.0
Skewnewss : 5.219292174613228
Total size : 280

	sum	mean	amin	median \
Characteristics				
High school diploma and less	6094610.0	43532.928571	61.0	12171.5
Trade certificate	2276069.0	17242.946970	20.0	2966.5
University degree and higher	18375941.0	139211.674242	104.0	24244.0

	amax	size
Characteristics		
High school diploma and less	658441.0	140
Trade certificate	260168.0	132
University degree and higher	2065714.0	132

Overall,
Sum : 26746620.0
Mean : 66204.50495049504
Min/median/max : 20.0 / 7652.5 / 2065714.0
Skewnewss : 6.586178377179555
Total size : 404

	sum	mean	amin	median	amax \
Characteristics					
Immigrant employees	9619752.0	72876.909091	44.0	7122.0	1084033.0
Non-immigrant employees	26411404.0	200086.393939	265.0	48305.0	2949643.0

	size
Characteristics	
Immigrant employees	132
Non-immigrant employees	132

Overall,

```
Sum :  36031156.0
Mean :  136481.65151515152
Min/median/max : 44.0 / 22388.5 / 2949643.0
Skewnewss :  5.23214354028323
Total size :  264
```

Number of Jobs above 2016:

Characteristics	sum	mean	amin	median	amax	size
15 to 24 years	6982797.0	18184.367188	17.0	4226.5	247960.0	384
25 to 34 years	14834434.0	35320.080952	19.0	6175.5	564788.0	420
35 to 44 years	14617498.0	34803.566667	18.0	6187.5	561685.0	420
45 to 54 years	14444696.0	34392.133333	16.0	6021.0	529125.0	420
55 to 64 years	12756180.0	30371.857143	12.0	5427.5	472689.0	420
65 years old and over	4657335.0	12128.476562	21.0	2629.5	173157.0	384

Overall,
Sum : 68292940.0
Mean : 27897.442810457516
Min/median/max : 12.0 / 4558.5 / 564788.0
Skewnewss : 4.809331956520746
Total size : 2448
Year of above 2016

Characteristics	sum	mean	amin	median	\
High school diploma and less	14551112.0	34645.504762	40.0	8369.0	
Trade certificate	4557958.0	11509.994949	13.0	1946.0	
University degree and higher	31835328.0	80392.242424	42.0	13542.0	

Characteristics	amax	size
High school diploma and less	506866.0	420
Trade certificate	170641.0	396
University degree and higher	1230063.0	396

Overall,
Sum : 50944398.0
Mean : 42033.33168316832
Min/median/max : 13.0 / 5139.5 / 1230063.0
Skewnewss : 6.08465597519352
Total size : 1212
Year of above 2016

Characteristics	sum	mean	amin	median	\
High school diploma and less	14551112.0	34645.504762	40.0	8369.0	
Trade certificate	4557958.0	11509.994949	13.0	1946.0	
University degree and higher	31835328.0	80392.242424	42.0	13542.0	

Characteristics	amax	size
High school diploma and less	506866.0	420
Trade certificate	170641.0	396
University degree and higher	1230063.0	396

Overall,
Sum : 50944398.0
Mean : 42033.33168316832
Min/median/max : 13.0 / 5139.5 / 1230063.0
Skewnewss : 6.08465597519352
Total size : 1212

```
                           sum           mean    amin   median       amax  \
Characteristics
Immigrant employees      17614399.0   44480.805556   19.0   4334.0    677236.0
Non-immigrant employees  50671265.0  127957.739899  161.0  30082.5   1866156.0


                          size
Characteristics
Immigrant employees        396
Non-immigrant employees    396
Overall,
Sum :  68285664.0
Mean :  86219.27272727272
Min/median/max : 19.0 / 14160.5 / 1866156.0
Skewnewss :  5.204460055376147
Total size :  792
```

Number of Job in 2016 - 2017

Characteristics	sum	mean	amin	median	amax	size
15 to 24 years	2375186.0	18556.140625	17.0	4338.0	246127.0	128
25 to 34 years	4760712.0	34005.085714	22.0	6002.5	513887.0	140
35 to 44 years	4649406.0	33210.042857	22.0	6092.5	502806.0	140
45 to 54 years	4840508.0	34575.057143	16.0	6165.0	525300.0	140
55 to 64 years	4182174.0	29872.671429	12.0	5584.0	447619.0	140
65 years old and over	1455079.0	11367.804688	21.0	2334.5	154176.0	128

Overall,
Sum : 22263065.0
Mean : 27283.167892156864
Min/median/max : 12.0 / 4409.0 / 525300.0
Skewnewss : 4.782815550728634
Total size : 816

Characteristics	sum	mean	amin	median	amax	size
Female employees	15422076.0	110157.685714	40.0	18709.5	1665533.0	140
Male employees	6842504.0	48875.028571	46.0	9170.0	714167.0	140

Overall,
Sum : 22264580.0
Mean : 79516.35714285714
Min/median/max : 40.0 / 12430.5 / 1665533.0
Skewnewss : 5.156370848063688
Total size : 280

Characteristics	sum	mean	amin	median \
High school diploma and less	4883842.0	34884.585714	46.0	8309.5
Trade certificate	1549667.0	11739.901515	14.0	2053.5
University degree and higher	10071923.0	76302.446970	42.0	13001.0

Characteristics	amax	size
High school diploma and less	498584.0	140
Trade certificate	170641.0	132
University degree and higher	1098295.0	132

Overall,
Sum : 16505432.0
Mean : 40855.0297029703
Min/median/max : 14.0 / 5493.5 / 1098295.0
Skewnewss : 5.958546988102031
Total size : 404

Characteristics	sum	mean	amin	median	amax \
Immigrant employees	5568069.0	42182.340909	19.0	3979.5	606032.0
Non-immigrant employees	16692562.0	126458.803030	162.0	29465.5	1776859.0

Characteristics	size
Immigrant employees	132
Non-immigrant employees	132

Overall,

```
Sum :  22260631.0
Mean :  84320.57196969698
Min/median/max : 19.0 / 13887.5 / 1776859.0
Skewnewss :  5.250208065690229
Total size :  264
```

Number of job in 2018 - 2019:

Characteristics	sum	mean	amin	median	amax	size
15 to 24 years	2390236.0	18673.718750	26.0	4368.5	247960.0	128
25 to 34 years	4985340.0	35609.571429	22.0	6309.0	542159.0	140
35 to 44 years	4901766.0	35012.614286	21.0	6385.5	535395.0	140
45 to 54 years	4821504.0	34439.314286	17.0	6090.5	519806.0	140
55 to 64 years	4286470.0	30617.642857	14.0	5653.5	461564.0	140
65 years old and over	1604437.0	12534.664062	24.0	2723.0	169257.0	128

Overall,
Sum : 22989753.0
Mean : 28173.716911764706
Min/median/max : 14.0 / 4578.0 / 542159.0
Skewnewss : 4.774502094747804
Total size : 816

Characteristics	sum	mean	amin	median	amax	size
Female employees	15941504.0	113867.885714	39.0	19940.5	1730753.0	140
Male employees	7049804.0	50355.742857	45.0	9285.5	745386.0	140

Overall,
Sum : 22991308.0
Mean : 82111.81428571428
Min/median/max : 39.0 / 12831.5 / 1730753.0
Skewnewss : 5.150256297803298
Total size : 280

Characteristics	sum	mean	amin	median \
High school diploma and less	4949338.0	35352.414286	45.0	8299.0
Trade certificate	1523186.0	11539.287879	13.0	1926.5
University degree and higher	10701094.0	81068.893939	46.0	13754.0

Characteristics	amax	size
High school diploma and less	506866.0	140
Trade certificate	166063.0	132
University degree and higher	1176307.0	132

Overall,
Sum : 17173618.0
Mean : 42508.955445544554
Min/median/max : 13.0 / 5360.5 / 1176307.0
Skewnewss : 6.043705875075848
Total size : 404

Characteristics	sum	mean	amin	median	amax \
Immigrant employees	5939424.0	44995.636364	21.0	4263.0	650616.0
Non-immigrant employees	17047959.0	129151.204545	161.0	30233.0	1825523.0

Characteristics	size
Immigrant employees	132
Non-immigrant employees	132

Overall,

```
Sum :  22987383.0
Mean :  87073.42045454546
Min/median/max : 21.0 / 14628.0 / 1825523.0
Skewnewss :  5.1994622671025414
Total size :  264
```

Hours worked 2020 - 2021

```
                           sum            mean   amin   median       amax   size
Characteristics
15 to 24 years          2217375.0   17323.242188   24.0   3849.5   241944.0    128
25 to 34 years          5088382.0   36345.585714   19.0   6201.5   564788.0    140
35 to 44 years          5066326.0   36188.042857   18.0   6055.5   561685.0    140
45 to 54 years          4782684.0   34162.028571   16.0   5578.5   529125.0    140
55 to 64 years          4287536.0   30625.257143   13.0   5197.5   472689.0    140
65 years old and over   1597819.0   12482.960938   26.0   2700.5   173157.0    128
Overall,
Sum :  23040122.0
Mean :  28235.44362745098
Min/median/max : 13.0 / 4637.5 / 564788.0
Skewnewss :  4.871696721462427
Total size :  816
```

```
                         sum            mean   amin    median        amax   size
Characteristics
Female employees   16062712.0   114733.657143   37.0   19062.0   1788569.0    140
Male employees      6979072.0    49850.514286   43.0    9239.5    754820.0    140
Overall,
Sum :  23041784.0
Mean :  82292.08571428571
Min/median/max : 37.0 / 12422.5 / 1788569.0
Skewnewss :  5.231432687317265
Total size :  280
```

```
                                  sum            mean   amin    median  \
Characteristics
High school diploma and less   4717932.0   33699.514286   40.0    8612.5
Trade certificate              1485105.0   11250.795455   13.0    1799.5
University degree and higher  11062311.0   83805.386364   52.0   13797.5
```

```
                                  amax   size
Characteristics
High school diploma and less   502837.0    140
Trade certificate              167537.0    132
University degree and higher  1230063.0    132
Overall,
Sum :  17265348.0
Mean :  42736.0099009901
Min/median/max : 13.0 / 4969.0 / 1230063.0
Skewnewss :  6.228267414273292
Total size :  404
```

```
                             sum             mean   amin   median        amax  \
Characteristics
Immigrant employees      6106906.0    46264.439394   23.0    4384.0    677236.0
Non-immigrant employees 16930744.0   128263.212121  167.0   29581.5   1866156.0
```

```
                         size
Characteristics
Immigrant employees       132
Non-immigrant employees   132
Overall,
```

```
Sum :  23037650.0
Mean :  87263.82575757576
Min/median/max : 23.0 / 14330.0 / 1866156.0
Skewnewss :  5.220133469489707
Total size :  264
```

Wages and Salaries in above 2016:

Characteristics	sum	mean	amin	median	amax	size
15 to 24 years	120059.0	312.653646	0.0	68.0	4797.0	384
25 to 34 years	619755.0	1475.607143	1.0	223.5	25966.0	420
35 to 44 years	817094.0	1945.461905	1.0	289.5	34223.0	420
45 to 54 years	906055.0	2157.273810	1.0	306.0	36376.0	420
55 to 64 years	730681.0	1739.716667	1.0	249.5	29595.0	420
65 years old and over	166862.0	434.536458	1.0	79.0	6876.0	384

Overall,
Sum : 3360506.0
Mean : 1372.7557189542483
Min/median/max : 0.0 / 156.0 / 36376.0
Skewnewss : 5.360191965724584
Total size : 2448

Characteristics	sum	mean	amin	median	amax	\
High school diploma and less	434343.0	1034.150000	2.0	252.0	16432.0	
Trade certificate	180066.0	454.712121	1.0	86.5	7213.0	
University degree and higher	1949451.0	4922.856061	3.0	893.5	81938.0	

Characteristics	size
High school diploma and less	420
Trade certificate	396
University degree and higher	396

Overall,
Sum : 2563860.0
Mean : 2115.3960396039606
Min/median/max : 1.0 / 207.5 / 81938.0
Skewnewss : 7.171995609359461
Total size : 1212

```
                                sum         mean   amin  median       amax  size
Characteristics
Immigrant employees          874530.0  2208.409091   1.0   202.0   36981.0   396
Non-immigrant employees     2485447.0  6276.381313   9.0  1387.0  100851.0   396
Overall,
Sum :  3359977.0
Mean :  4242.395202020202
Min/median/max : 1.0 / 550.0 / 100851.0
Skewnewss :  5.3141731251626085
Total size :  792
```

Wages and Salaries in 2016-2017

	sum	mean	amin	median	amax	size
Characteristics						
15 to 24 years	37176.0	290.437500	0.0	65.0	4032.0	128
25 to 34 years	185671.0	1326.221429	1.0	220.5	20739.0	140
35 to 44 years	244577.0	1746.978571	1.0	265.0	27273.0	140
45 to 54 years	284561.0	2032.578571	1.0	290.5	31401.0	140
55 to 64 years	225836.0	1613.114286	1.0	239.0	24963.0	140
65 years old and over	49331.0	385.398438	1.0	69.5	5464.0	128

Overall,
Sum : 1027152.0
Mean : 1258.764705882353
Min/median/max : 0.0 / 146.5 / 31401.0
Skewnewss : 5.365171698068336
Total size : 816
2016

	sum	mean	amin	median	amax	size
Characteristics						
Female employees	670077.0	4786.264286	2.0	624.0	75370.0	140
Male employees	357115.0	2550.821429	3.0	517.5	38502.0	140

Overall,
Sum : 1027192.0
Mean : 3668.542857142857
Min/median/max : 2.0 / 546.5 / 75370.0
Skewnewss : 5.032064742619605
Total size : 280

	sum	mean	amin	median	amax	\
Characteristics						
High school diploma and less	136460.0	974.714286	2.0	240.0	14218.0	
Trade certificate	57415.0	434.962121	1.0	87.5	6301.0	
University degree and higher	582970.0	4416.439394	3.0	767.5	65580.0	

	size
Characteristics	
High school diploma and less	140
Trade certificate	132
University degree and higher	132

Overall,
Sum : 776845.0
Mean : 1922.8836633663366
Min/median/max : 1.0 / 201.0 / 65580.0
Skewnewss : 7.072724099156632
Total size : 404

	sum	mean	amin	median	amax	size
Characteristics						
Immigrant employees	260346.0	1972.318182	1.0	182.5	29414.0	132
Non-immigrant employees	766651.0	5807.962121	9.0	1307.0	84458.0	132

Overall,
Sum : 1026997.0
Mean : 3890.1401515151515
Min/median/max : 1.0 / 509.0 / 84458.0
Skewnewss : 5.340053199546963
Total size : 264

Wages and Salaries 2018-2019

	sum	mean	amin	median	amax	size
Characteristics						
15 to 24 years	40496.0	316.375000	1.0	70.0	4446.0	128
25 to 34 years	206062.0	1471.871429	1.0	229.5	23307.0	140
35 to 44 years	271372.0	1938.371429	2.0	296.5	30712.0	140
45 to 54 years	300255.0	2144.678571	1.0	307.5	33540.0	140
55 to 64 years	242819.0	1734.421429	1.0	253.0	27152.0	140
65 years old and over	55986.0	437.390625	1.0	82.0	6236.0	128

Overall,
Sum : 1116990.0
Mean : 1368.860294117647
Min/median/max : 1.0 / 156.0 / 33540.0
Skewnewss : 5.310877385873127
Total size : 816

	sum	mean	amin	median	amax	size
Characteristics						
Female employees	732546.0	5232.471429	3.0	691.5	83201.0	140
Male employees	384492.0	2746.371429	3.0	535.5	42192.0	140

Overall,
Sum : 1117038.0
Mean : 3989.4214285714284
Min/median/max : 3.0 / 553.0 / 83201.0
Skewnewss : 5.037835739560869
Total size : 280

	sum	mean	amin	median	amax	\
Characteristics						
High school diploma and less	145417.0	1038.692857	2.0	256.0	15308.0	
Trade certificate	59539.0	451.053030	1.0	86.5	6651.0	
University degree and higher	647879.0	4908.174242	3.0	862.0	73846.0	

	size
Characteristics	
High school diploma and less	140
Trade certificate	132
University degree and higher	132

Overall,
Sum : 852835.0
Mean : 2110.977722772277
Min/median/max : 1.0 / 212.0 / 73846.0
Skewnewss : 7.095532371445074
Total size : 404

	sum	mean	amin	median	amax	size
Characteristics						
Immigrant employees	290691.0	2202.204545	1.0	202.0	33261.0	132
Non-immigrant employees	826133.0	6258.583333	9.0	1410.5	92132.0	132

Overall,
Sum : 1116824.0
Mean : 4230.393939393939
Min/median/max : 1.0 / 544.0 / 92132.0
Skewnewss : 5.288831037572836
Total size : 264

Wages and Salaries 2020-2021

Characteristics	sum	mean	amin	median	amax	size
15 to 24 years	42387.0	331.148438	1.0	69.0	4797.0	128
25 to 34 years	228022.0	1628.728571	1.0	236.5	25966.0	140
35 to 44 years	301145.0	2151.035714	2.0	315.0	34223.0	140
45 to 54 years	321239.0	2294.564286	1.0	317.0	36376.0	140
55 to 64 years	262026.0	1871.614286	1.0	260.5	29595.0	140
65 years old and over	61545.0	480.820312	2.0	88.0	6876.0	128

Overall,
Sum : 1216364.0
Mean : 1490.6421568627452
Min/median/max : 1.0 / 163.0 / 36376.0
Skewnewss : 5.305760626960988
Total size : 816

Characteristics	sum	mean	amin	median	amax	size
Female employees	803928.0	5742.342857	3.0	725.5	92154.0	140
Male employees	412470.0	2946.214286	3.0	549.0	45679.0	140

Overall,
Sum : 1216398.0
Mean : 4344.278571428571
Min/median/max : 3.0 / 573.0 / 92154.0
Skewnewss : 5.077876311687812
Total size : 280

Characteristics	sum	mean	amin	median	amax	\
High school diploma and less	152466.0	1089.042857	2.0	263.5	16432.0	
Trade certificate	63112.0	478.121212	1.0	84.5	7213.0	
University degree and higher	718602.0	5443.954545	4.0	946.5	81938.0	

Characteristics	size
High school diploma and less	140
Trade certificate	132
University degree and higher	132

Overall,
Sum : 934180.0
Mean : 2312.3267326732675
Min/median/max : 1.0 / 212.5 / 81938.0
Skewnewss : 7.132755685575423
Total size : 404

Characteristics	sum	mean	amin	median	amax	size
Immigrant employees	323493.0	2450.704545	1.0	222.0	36981.0	132
Non-immigrant employees	892663.0	6762.598485	10.0	1472.5	100851.0	132

Overall,
Sum : 1216156.0
Mean : 4606.651515151515
Min/median/max : 1.0 / 584.5 / 100851.0
Skewnewss : 5.268411801946808
Total size : 264