Analysis of Ontario wages in relation to economic factors based on Ontario Data Catalogue (1997-2019)

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1 Loading the Data

We will use the following data sets:

```
wages = read.csv("wages.csv")
```

2 Description of the Data set

The `wages` data set includes the average weekly wages rates by education level and immigration status for Canada and Ontario in the years from 1997 to 2019. It includes the following columns:

```
names(wages)
```

```
## [1] "YEAR"            "Geography"       "Type.of.work"    "Wages"
## [5] "Education.level" "Age.group"       "Both.Sexes"      "Male"
## [9] "Female"
```

1. `YEAR`: Indicates the year in which the data was collected.
2. `Geography`: Indicates the region from which the data was collected. Its possible values include Canada as well as the Canadian provinces and territories.
3. `Type.of.work`: Indicates whether the data in the row is for full-time employees or part-time employees or both.
4. `Wages`:
    1. `Total employees`: The number of employees in the given age range, education level, and job status.
    2. `Averag hourly wage rate`: The average hourly wage of the employees in the given age range, education level, and job status.
    3. And so on for `Average weekly wage rate`, `Median hourly wage rate`, and `Median weekly wage rate`.
5. `Education.level`: Indicates the level of education. It can include the following:

Education.level
Above bachelor's degree
Bachelor's degree
Community college, CEGEP
Trade certificate or diploma
University certificate below bachelors degree
0 - 8 years
High school graduate
Post-secondary certificate or diploma

Education.level
Some high school
Some post-secondary
University degree
No PSE (0,1,2,3,4)
PSE (5,6,7,8,9))
Total, all education levels

6. `Age.group`: Indicates the age range of the individuals under consideration. It can include the following:

Age.group
15 years and over
15-24 years
20-34 years
25 years and over
25-34 years
25-54 years
25-64 years
55 years and over

7. `Both.sexes`: The data not seperated by gender.
8. `Male`: The data for males.
9. `Female`: The data for females.