**Business requirements**

**First Question : The relationship between age and income.**

From this table :

|  |  |
| --- | --- |
| 9827 $ | Aver. income for people from 17 to 30 years old |
| 10153 $ | Aver. income for people from 30 to 50 years old |
| 10911 $ | Aver. income for people from 50 to 70 years old |
| 10724 $ | Aver. income for people from 70 to 90 years old |

and when we see that the average age of 36 years old takes annual income less than 50k  
and average 44 years old takes annual income more than 50k , taking in consideration the values in the above table , we can conclude that there's an ascending salaries from 36 years old up to 44 years old . then at the retirement age and after it (67 years old in USA) salaries go down.

**Second Question : Gender equality .**

-Male working hours are 42.5 hour/week , Female working hours are 36,4 hour/week.  
-On the other side the average income for male is 10362 $ and for female is 9832 $ which match with the difference in the working hours.

So, we conclude that there is gender equality in the income according to the working hours.

-Also, the next table will help us to know the gender equality in the different types of jobs:

|  |  |  |
| --- | --- | --- |
| Female Percentage | Male Percentage | Occupation |
| 3 | 3 | Federal Gov |
| 71 | 68 | Private |
| 8 | 6 | Local Gov |
| 0.0004 | 0.04 | Without pay |
| 0.01 | 0.02 | Never worked |

So, we conclude that there is a gender equality with a slight advantage for females in some occupations.

-Finally, the education table:

|  |  |  |
| --- | --- | --- |
| Female Percentage | Male Percentage | Education degree |
| 12 | 13 | From 1st to 12th |
| 15 | 17 | Bachelors |
| 0.8 | 1.6 | Doctorate |

So, we conclude that male reaches high education degrees more than women , but that doesn't mean that there's gender inequality in my point of view.

**Third Question : The other attributes that could be income predictor.**From this table :

|  |  |
| --- | --- |
| Average Income | Work Class |
| 9750 | Federal Gov. |
| 10221 | Local Gov. |
| 10033 | Private |
| 11340 | Self-emp-inc |
| 10773 | Self-emp-not-inc |
| 10593 | State-Gov. |

So, each occupation has its own income value and the occupation can be an income predictor.

Thanks !

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