Data Description

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BUSI 275

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The data that we are using is a part chosen from 2001 Canada Census which can be found here <http://www.statcan.gc.ca/kits-trousses/microdata-microdonnees/census-recensement2001/edu06g1_0001-eng.htm>. For the purpose of keeping this project in the right required length (4000 words) we chose to analyse only the Census of British Columbia.

As stated on Statistic Canada, this data set is free to all educational purpose. More information is provided here <http://www.statcan.gc.ca/edu/edu06_0003-eng.htm>.

This data set contains 1,000 observations.

Below is a table which contains variable’s definition, its level of measurement and number of missing cases of each variable:

|  |  |  |  |
| --- | --- | --- | --- |
| Variables | Definition | Level of measurement | Number of missing cases |
| Age | Age on May 15, 2001, Census Day. The value 85 includes persons 85 years of age and over. | Ratio | 0 |
| Sex | Gender of the respondent: male or female | Nominal | 0 |
| Place of birth | Specific province or territory if born in Canada or specific countries/regions if born outside Canada | Nominal | 0 |
| Highest level of schooling | Refers to the highest grade of elementary or secondary school attended, or the highest year of university or college education completed. Reported for population 15 years and over. | Ordinal | 0 |
| Major field of study | Refers to the predominant discipline or area of learning or training of a person’s highest postsecondary degree, certificate or diploma. Reported for population 15 years and over with postsecondary education. | Ordinal | 181 |
| Labour force activity in week | Labour market activity of the population 15 years of age and older in the week prior to the census: employed, unemployed or not in the labour force. | Nominal | 181 |
| Industry | General nature of the business carried out in the establishment where the person worked, based on the 1997 North American Industry Classification System (NAICS). Data were included for persons 15 and over who worked during the reference period. | Nominal | 430 |
| Total income | Total money income received by individuals 15 years of age and over during the calendar year 2000. Items such as gambling gains and losses, lottery prizes, lump sum inheritances, and capital gains or losses are not included. Persons immigrating to Canada in 2001 are deemed to have an income of $0. | Ratio | 181 |
| Wages and salaries | Refers to gross wages and salaries before deductions for such items as income tax, pensions and Employment Insurance. | Ratio | 181 |
| Self-employment income | Refers to the total income received by persons 15 years of age and over during calendar year 2000 as net income from farm self-employment and/or from non-farm self-employment. | Ratio | 181 |

This section below includes some characteristics of quantitative variables (age, total income, wages and salaries, self-employment income).

|  |  |  |
| --- | --- | --- |
|  | Mean | Standard deviation |
| Age | 37.87 | 21.918657 |
| Total income | $ 27,646 | $ 26,628.645 |
| Wages and salaries | 19296.269 | 26153.174 |

Frequency distribution of nominal and ordinal variables:

Explanation:

|  |  |
| --- | --- |
| 1: Less than Grade 5 | 8: With college certificate or diploma |
| 2: Grades 5 to 8 | 9: University: Without certificate, diploma or degree |
| 3: Grades 9 to 13 | 10: University: With university or college certificate or diploma |
| 4: Secondary (high) school graduation certificate | 11: University: With bachelor or first professional |
| 5: Trades certificate or diploma | 12: University: With certificate or diploma above bachelor level |
| 6: College: Without trades or college certificate or diploma | 13: University: With master degree(s) |
| 7: College: With trades certificate or diploma | 14: University: With earned doctorate |
|  | 15: Not applicable |

Explanation:

|  |  |
| --- | --- |
| 1: Newfoundland and Labrador | 17: Portugal |
| 2: Nova Scotia | 19: Greece |
| 3: New Brunswick | 20: USSR, former (European component) |
| 4: Quebec | 21: Yugoslavia, former |
| 5: Ontario | 22: Other Europe |
| 6: Manitoba | 23: West Central Asia and the Middle East |
| 7: Saskatchewan | 24: India |
| 8: Alberta | 26: China, People's Republic of |
| 9: British Columbia | 27: Hong Kong, Special Administrative Region |
| 10: Other province or territory | 28: Philippines |
| 11: United States | 29: Vietnam |
| 12: United Kingdom | 30: Other Eastern and South-East Asia |
| 13: Germany | 33: Central America, South America, Caribbean and Bermuda |
| 14: Italy | 34: Oceania |
| 15: Netherlands |  |
| 16: Poland |  |

Explanation:

|  |  |
| --- | --- |
| 1: Agricultural, biological, nutritional, and food sciences | 11: Commerce, management and business administration: Office administration, secretarial and clerical |
| 2: All other | 12: Educational, recreational and counselling services |
| 3: Applied science technologies and trades: Building technologies | 13: Engineering and applied sciences |
| 4: Applied science technologies and trades: Data processing and computer technologies | 14: Fine and applied arts |
| 5: Applied science technologies and trades: Electronic and electrical technologies | 15: Health professions and related technologies: Alternative medicine and other health sciences |
| 6: Applied science technologies and trades: Other engineering technologies, n.e.c. | 16: Health professions and related technologies: Nursing |
| 7: Commerce, management and business administration: Business and commerce | 17: Humanities and related fields |
| 8: Commerce, management and business administration: Financial management | 18: Mathematics, computer and physical sciences |
| 9: Commerce, management and business administration: Industrial and institutional management and administration | 19: No postsecondary qualifications |
| 10: Commerce, management and business administration: Marketing, merchandising, retailing and sales | 20: Social sciences and related fields |
|  | N/A: Not available |

Explanation:

|  |  |
| --- | --- |
| 1: Accommodation and food services | 11: Mining and oil and gas extraction |
| 2: Administrative and support, waste management and remediation services | 12: Other services (except public administration) |
| 3:Agriculture, forestry, fishing and hunting | 13: Professional, scientific and technical services |
| 4: Arts, entertainment and recreation | 14: Public administration |
| 5: Construction | 15: Real estate and rental and leasing |
| 6: Educational services | 16: Retail trade |
| 7: Finance and insurance | 17: Transportation and warehousing |
| 8: Health care and social assistance | 18: Utilities |
| 9: Information and cultural industries | 19: Wholesale trade |
| 10: Manufacturing | N/A: Not Available |

Explanation:

|  |  |
| --- | --- |
| 1: Employed - Absent | 8: Unemployed - Lay-off - Looked for full-time work |
| 2: Employed - Worked | 9: Unemployed - Looked for full-time work |
| 3: Not in the labour force - Last worked before 2 | 10: Unemployed - Looked for part-time work |
| 4: Not in the labour force - Last worked in 2 | 11: Unemployed - New job - Did not look for work |
| 5: Not in the labour force - Last worked in 21 | 12: Unemployed - New job - Looked for full-time work |
| 6: Not in the labour force - Never worked | 13: Unemployed - New job - Looked for part-time work |
| 7: Unemployed - Lay-off - Did not look for work | N/A: Not available |

Works cited:

Statistics Canada . Statistics Canada. 2001. 7 Feburary 2012 http://www.statcan .gc.ca/edu /edu06\_0003-eng.htm.

Statistics Canada . Statistics Canada. 2001. 7 February 2012 < [http://www.statcan.gc.ca/k its-trousses/microdata-microdonnees/ce nsus-recensement2001/edu06g1\_0001-eng.htm](http://www.statcan.gc.ca/k%20its-trousses/microdata-microdonnees/ce%20nsus-recensement2001/edu06g1_0001-eng.htm)>.