Strategic Corporate Information Dataset for Data Challenge

List of ideas/questions:

1. Do employers value educational qualifications or skills qualifications?
2. How can tertiary education deliver better value to the economy?
3. Do employers value educational qualifications or skills qualifications?

“In the last decade, an increasing demand for high skilled workers could be observed in most developed countries.” from <http://ftp.iza.org/dp999.pdf>

And does it applies to Singapore too? How does having more educational qualifications or skills qualifications workers affects income of companies?

With that *(Singapore Key Indicators of Professionals Conversion Programme (PCP) and Workers Trained Under the Singapore Workforce Skills Qualification System**dataset 2004-2013)* was found to combine with the dataset taken from IDA *(Strategic Information).*

First looked at the net profits of the companies from 2009-2011 and see the trend. Then plot a graph on the trends of Skills Qualified workers and Professionals from 2009-2011. Compare the trend of the 3 graph and make a conclusion.

Datasets:

* <http://stats.mom.gov.sg/iMAS_Tables/YearBook/YearBook_2014/mrsd_2014YearBook_HEStableH_12.xlsx>

(Singapore Key Indicators of Professionals Conversion Programme (PCP) and Workers Trained Under the Singapore Workforce Skills Qualification Systemdataset 2004-2013)

* <http://elixirtech-ckan.cloudapp.net/storage/f/2015-06-26T10%3A29%3A26.789Z/strategic-information-sample.xls>

(Strategic Information)

2) How can tertiary education deliver better value to the economy?

Dataset:

**Singapore Residents Aged 25 Years & Over By Highest Qualification Attained, Sex, And Age Group, Annual**:

<https://www.dropbox.com/s/hwywjnal4hs0rbk/HighestQualification.csv?dl=0>

Data pertain to residents who are not attending educational institutions as full-time students. The data include those who are upgrading their qualifications through part-time courses while working.

With this data, we can look at the relationship and the percentage of how many workers come from which background just by plotting a bar chart or histogram. We can compare them year by year (2009-2011) and look at the trend or differences. This will help us visualize the data.

Source: <http://www.tablebuilder.singstat.gov.sg/publicfacing/mainMenu.action>

**Paid Hours Worked (Per Week):**

<https://www.dropbox.com/s/wqv1bajkerdsyfw/PaidHoursWorked.csv?dl=0>

The number of hours worked has an impact on workers’ well being and labour productivity.

We can compare this data to the tertiary qualification and see its relationship.

Source: <http://stats.mom.gov.sg/Pages/ExploreStatisticsPublications.aspx#PublicationSearch?topic=training-and-higher-education&type=tables>

**GDP Per Capita- US$:**

<https://www.dropbox.com/s/ey768xvm4w7p67m/GDP.csv?dl=0>

Definition: GDP per capita is gross domestic product divided by midyear population. GDP is the sum of gross value added by all resident producers in the economy plus any product taxes and minus any subsidies not included in the value of the products. It is calculated without making deductions for depreciation of fabricated assets or for depletion and degradation of natural resources. Data are in current U.S. dollars.

We can compare this data to tertiary qualifications on the horizontal axis with gross domestic product (GDP) per capita on the vertical axis. GDP per capita provides a general measure of economic performance and wellbeing. This will help us visualize the performance that Singapore’s economic is.

Source: <http://www.indexmundi.com/g/g.aspx?v=67&c=bg&l=en>

Related-links:

Statistic Singapore:

<http://www.singstat.gov.sg/statistics/browse-by-theme/education-and-literacy>

<http://www.tablebuilder.singstat.gov.sg/publicfacing/mainMenu.action>

<https://www.mti.gov.sg/ResearchRoom/Pages/Economic-Survey-of-Singapore-2011.aspx>

http://data.gov.sg/common/search.aspx?r=1&q=Skills+Redevelopment+Programme&s=default&o=a&a=HPB,HDB,ITE,MOE,SPS,MSF,DOS,NYP,NAC,NCSS,NEA,NLB,NP,RP,SP,WDA,URA&c=12,01,03,02,07,06,04,08&f=CSV,KML,PGDB,SHP,TXT,OTHERS,XLS,XML&count=10&page=2

(Singapore statistics website for data)