**LCCS**

**ALT2 Reflection**

1. **Investigation and Plan**

For my group’s ALT2 we studied ‘The Breakdown of Crime in Ireland in 2016’. We were researching various topics and concluded on this due to the fact it is always a very hot topic in the news and crime in Ireland is consistently rising. Learning about this was very interesting as it really puts into perspective how bad Ireland's problem with crime really is.

After we decided on this topic, we had to go search for our data that we could collect and process while undergoing this project. We found the perfect amount of data on many different reliable websites and continued to process this data.

The first thing we had to do in this project was investigate what data we should abstract from the spreadsheet we created on Google Slides. We started off by planning the project by getting rid of all unnecessary data, decomposing the workload that had to be completed and spreading it evenly between the three of us.

1. **Design**

We analysed from 2003-2019, the number of crimes committed, the number of different types of offences committed, the region/garda division of where the offences were committed, the type of offence committed and the number of crimes committed per each quarter of the year.

We finalised our decision and decided to analyse the year 2016. Our reasoning behind this was because with the data we had, it was the last time a census was conducted and it made things easier for us with population, number of Gardaí on duty etc…

All this data we collected and processed was then displayed on pie charts, line graphs and histograms.

1. **Implementation and Testing**

Week 1 ~ We collected all our data off various different websites.We then analysed all this data we found and abstracted what we needed for our project. We discussed what needed to be done over the next few weeks and who was doing what work.

Week 2 ~ We had finished collecting all of our data so we found sums, averages and differences of the data we were using, then we proceeded to put together all the necessary data and began constructing our pie charts, line graphs and histograms.

Week 3 ~ We had finalised abstracting and processing all our data so it was time to present it. We presented our final data on pie charts, line graphs and histograms, which were then shown on our Google Slides presentation.

While undergoing this project we used Google Sheets, Google Docs and Google Slides. Personally I found these applications effective as it gave us all a chance to share our ideas, brainstorm and discuss and correct each other's mistakes all while operating on the same page. We were originally using Microsoft Excel, Microsoft Word and Microsoft Powerpoint but as you are not able to work on the one page it made communicating very challenging.

There was so much data found that we had to decompose all of it into the necessary amount we needed and were going to use. On Google Sheets we had 26 sheets of data altogether and decomposing all this was going to be challenging. We spread the workload amongst ourselves and found that when we worked together, this task was completed a lot quicker than expected. We had so much data and decided to analyse the year 2016, the reasoning behind this is what i stated above, population, number of Gardaí on duty etc…

We used fundamental programming skills while analysing the data on Google Sheets. We wrote formulas on Google Sheets that found the average, the sum and the differences of all the data we were using. We used pie charts, line graphs and histograms to make the data more presentable.

1. **Evaluation**

Above all, our project definitely helped us all greatly. We improved our fundamental programming skills by a great deal and this will help us with future projects. I think the area where we most improved on was with spreadsheets and processing data. I am now much more competent with using Google Sheets and have improved hugely there. I learned how to decompose and abstract data, then display this data using many various charts and graphs.

If I was to do this project again, I would study the crime rate of another country and compare these results to Ireland. This would put into perspective how bad crime in Ireland is and is it as bad as we think it is. I would maybe compare other data such as the age, nationality and ethnicity. I think this would give us a greater insight into crime in Ireland and possibly see where different measures could be taken to reduce this crime.

**References**

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