Plan Overview

A Data Management Plan created using DMPonline

Title: the incidence of liver & lung and Bronchus & tongue & lips cancer with number of smoker in USA

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Template: DMP University of Vienna English V2

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Project abstract:

this dataset is used to show the relation between number of smoker in united state and the number of incidence of (liver , lunge &bronchus , lips , tongue) cancer

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the incidence of liver & lung and Bronchus & tongue & lips cancer with number of smoker in USA

1. Administrative Data

Title of the project

the relationsahip between the liver cancer incidance and tobacco smoker in alabama state 2000-2010

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Version of the Document and Date

version : 1 (first version)
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2. Data Collection

What type and amount of data will you generate?

- csv file that contain attribute like (state : string , year : int64 , count of liverCancerIncidance : int64 , count of TobaccoSmoker : int64)
- 371 bytes

How will the data be collected or created?

the data had been collected from 2 datasets the first one was the liver cancer incidance that collected from data.gov website and the second one (tobacco usage) was collected from kaggle website
the data had been produced using a set of Python functions that make some transformation on the 2 original datasets

3. Documentation

What documentation will accompany the data?

the final documentation is collected and created to describe the effect of increasing number of tobacco smoker in one of USA states on the increasing number of people who is suffering from liver cancer , the data collected by the author : khaled maher awad , and its collected from 2 datasets from different websites , the first one is from kaggle and its about number of tobacco usage in USA state from 1995 - 2015 and the other one was collected from data.gov website and its about liver cancer incidance in USA states from 1999 to 2010 , i made a set of procedure on the original datasets to prepare and analyze the data to be useful and can be

used , first of all is to check if the data has null values or not and fill the null field with the median value of the column , the second procedure that eleminate the rows that is out of the specified period (2000-2010) , then i convert the type of one column in the tobacco usage "Never smoked" by deleting the percentage mark and change the results string into float , then i calculated the number of smoker by substracting 1 by the value of "Never smoker" column , and also i eliminated the rows that doesnt represent liver cancer in the second dataset , and i make a function that work as groupby function and i added a new column that represent the summation or total # of incidance in one year for all years in the specified period , then i merged the 2 datasets to results the final result

4. Metadata

What metadata will accompany the data?

the metadata structured by xml file that contain the basic information about the datasets like (title , creator , subject , description , date , type , format , source , language , coverage , rights)

5. Ethics and Legal Compliance

How will you manage any ethical issues?

in the research and collecting data we put in account that there isnt any ethically questionable material included just in Tobacco Usage dataset there is a coulmn about sex but i think it will not be a big deal or it will not harm any person , there is no limitation on the image size or resolution just that to be enough to include all person in USAno other country , the dataset is open access and with no limitation

How will you manage copyright and Intellectual Property Rights (IPR) issues?

The resulted dataset is open access to all users to access , maintain , use , share and so on , the original datasets thave license of ODBL but the other one has a license but its unknown

6. Storage and Backup

How will the data be stored and backed up during the research?

the final result is stored as a CSV file in the computers hard drive and the data will be secured and backed up using barracuda back up service (https://www.barracuda.com) and the data will be backed up weekly to prevent any data loss

How will you manage access and security?

the final data has no sensitive data and all the data has an open access "all people can access the final result" ,there is no risk on the data being attacked because there is no personal data

7. Selection and Preservation

Which data should be retained, shared and/or preserved?

the data that is wanted to be shared for long time is the final / resulted data that include the state name , the year , number of smoker , number of liver cancer incidance and these data is available as csv file , the data has no specified time to be stored in the repository
the presistent identifier for the data is :

10.1234/khaled.maher

What is the long-term preservation plan for the dataset?

the final data is shared at github website in the repository SW_Exercise and the address : https://github.com/KhaledMaher024/SW_Exercise and published at Zenedo website and has the name of : correlation between liver cancer incidance and tobacco smoker in alabama 2000-2010
with address : https://zenodo.org/record/2642043
there is no cost on carging additional data

8. Data Sharing

How will you share the data?

the data will be found on github and zenedo websites , there is no restriction on the access on the data , the license of the reulted data is (Creative Commons Attribution 4.0 International)

How will the data be used after completion of the project?

the data visualized as a flowchart and it can be used as an excel file also

9. Responsibilities and Resources

Who will be responsible for data management?

the responsible for implemeinting the DMP is khaled awad , and also the responsible on ensuring that the DMO is reviewed and revised

What resources will you require to implement your data management plan?

no