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|  | **CSCI/ISAT B104**  **Computer Programming Techniques, Practices, and Tools**  **Fall 2024**  **Project Documentation**  **Team XX** |

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# Project Contributions by Team Member

**Members and their Contact Information**

|  |  |  |
| --- | --- | --- |
| **Member** | **Email** | **Text** |
| Jalyn Perry | jalynmp@email.uscb.edu | 8435993055 |
| Tabias Farrison | tabiasf@email.uscb.edu | 8039284887 |

**Overall**

Relative Contribution of each member over the course of the entire project

|  |  |  |
| --- | --- | --- |
| **Member** | **Contribution** | **Total Hours** |
|  |  |  |
|  |  |  |

**YRBS Question Identification & Documentation**

|  |  |  |  |
| --- | --- | --- | --- |
| **Member** | **Contribution** | **Hours** | **Components** |
| Jalyn Perry | 50 % | 4 | * Using critical thinking to determine which questions may produce an interesting correlation. * Using critical thinking to determine which demographic questions may relate to previously explored questions. |
| Tabias Farrison | 50 % | 4 | * Using critical thinking to determine which questions may produce an interesting correlation.   Using critical thinking to determine which demographic questions may relate to previously explored questions |

**YRBS Data Winnowing & Retrieval**

|  |  |  |  |
| --- | --- | --- | --- |
| **Member** | **Contribution** | **Hours** | **Components** |
| Jalyn Perry | 50% | 4 | * Experimenting with pulling data directly from a SQL database into python. * Finalizing data by dropping unnecessary questions. * Determining which questions were necessary (helpful) to later analysis. |
| Tabias Farrison | 50% | 4 |  |

**Data Analysis (via Python)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Member** | **Contribution** | **Hours** | **Components** |
| Jalyn Perry | 60 % | 8 | * Researching libraries is necessary for data analysis/visualization. * Creating hypothesis based on what we observed initially when exploring the data * Exploring data and correlations and ensuring the underlying logic behind each implementation was correct. |
| Tabias Farrison | 40 % | 5 | * Experimenting with pulling data directly from a SQL database into python. * Finalizing data by dropping unnecessary questions. * Determining which questions were necessary (helpful) to later analysis. |

**Data Visualization (via Python)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Member** | **Contribution** | **Hours** | **Components** |
| Jalyn Perry | 70% | 3 | * Created visual graphs to represent data * Researched various graphs and decided which would be the best |
| Tabias Farrison | 30 % | 3 | * Created visual graphs to represent data * Researched various graphs and decided which would be the best |

**Python Script Creation**

|  |  |  |  |
| --- | --- | --- | --- |
| **Member** | **Contribution** | **Hours** | **Components** |
| Jalyn Perry | 70% | 1 | * Created a menu script so that users can select the graph they want to see |
| Tabias Farrison | 30 % | 1 | * Tested and assisted in creating a menu script so that users can select the graph they want to see |

**Poster Development**

|  |  |  |  |
| --- | --- | --- | --- |
| **Member** | **Contribution** | **Hours** | **Components** |
| Jalyn Perry | 45% | 1 | * Checked over poster and added findings |
| Tabias Farrison | 55% | 3 | -added graphs, visuals, introduction, hypothesis, and data winnowing. |

**Presentation Preparation & Practice**

|  |  |  |  |
| --- | --- | --- | --- |
| **Member** | **Contribution** | **Hours** | **Components** |
| Jalyn Perry | 50% | 1 | * Created notecards and practiced presentation |
| Tabias Farrison | 50% | 1 | * Created notecards and practiced presentation |

**Project Documentation & Administration**

|  |  |  |  |
| --- | --- | --- | --- |
| **Member** | **Contribution** | **Hours** | **Components** |
| Jalyn Perry | 50% | 4 | * Added to project documentation |
| Tabias Farrison | 50% | 4 | * Added to project documentation |

# Collaboration Tools

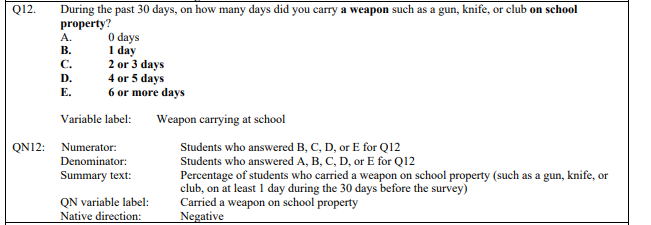
Tools to assist with task management, version control, communication, etc.

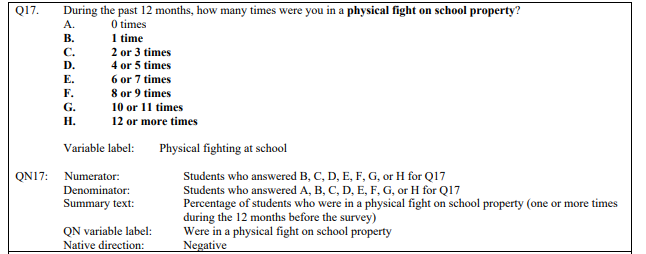
* Trello ([B104 Project | Trello](https://trello.com/b/YIUJzZwH/b104-project))
* GitHub (https://github.com/Jalyn-Perry/B104)
* Teams
* Word
* Spyder

# YRBS Questions Explored

Questions & responses explored over the course of the project.

*Place screenshots of the two questions below. Be sure to include their “response keys”.*



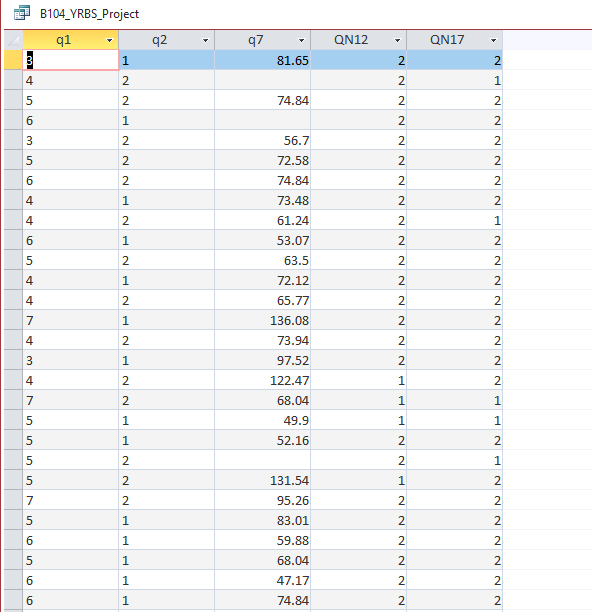


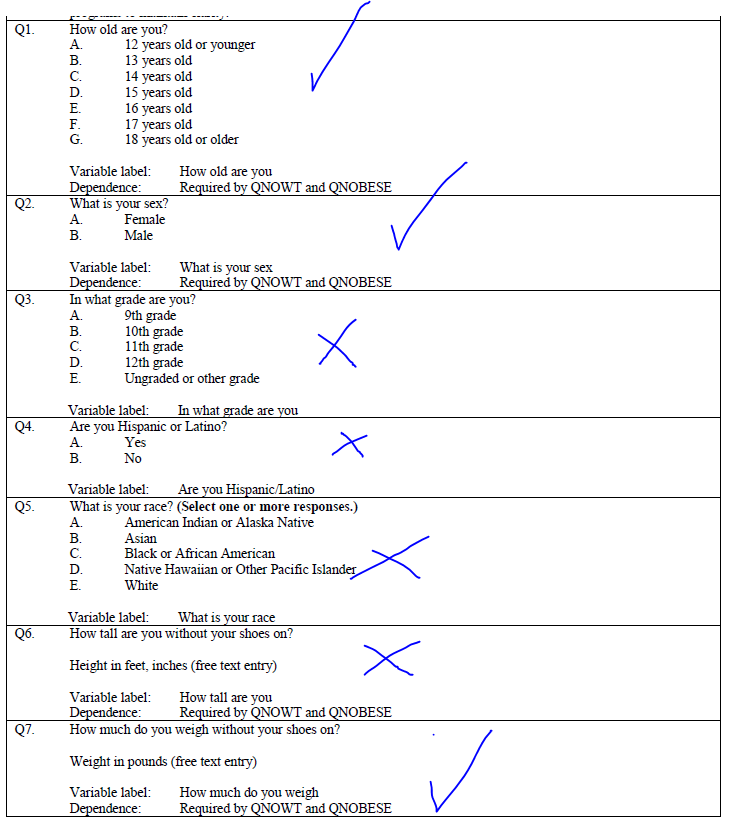
# YRBS Demographic Information Explored

Demographic questions & responses explored over the course of the project

*Place screenshots of the questions below. Be sure to include their “response keys”.*

*Demographic information includes gender, age, height, weight, ethnicity, etc.*



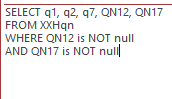
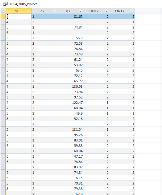


# YRBS Data Winnowing & Retrieval

How we winnowed & retrieved the data explored over the course of the project.

Write down a step-by-step guide explaining how you winnowed & retrieved the data from the YRBS site.

*Place screenshots of the SQL code and other relevant details here*

* *Download msdb file*
* *Open in msdb file in Microsoft access*
* *Create new query* 
  + 
* Run query
* Resulting data
  + 
* *Save query*
* *Export as excel sheet*

*-*

# Research Question and/or Hypothesis

The specific research questions we sought to answer.

H1: Someone who has been involved in a school fight has a higher chance of carrying a weapon to school.

H2: Someone who has been involved in a school fight has a lower chance of carrying a weapon to school.

Null-H: There is no correlation between school fights and carrying a weapon to school

Is there a correlation between violent behavior in adolescents. That is, is there a correlation between gender / age and violent behavior? Moreover, is there a correlation between types of violent behavior (bringing a weapon to school, and engaging in frequent fights)?

# Bibliography

Resources which we used over the course of the project.

Citations for:

Python Library Documentation

Python Tutorials

Best Practices

Poster Templates

Stack Overflow questions/answers

Etc.

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*W3Schools.com*. (n.d.). Retrieved November 29, 2024, from <https://www.w3schools.com/python/matplotlib_pie_charts.asp>

Follow APA format

# Acknowledgements

Specific peers who helped you debug

Upper class students, parents, siblings, friends, etc. who provided feedback and guidance

Etc.

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* Daniel Scheer - Understanding how to process data