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| Food Violations Report |
| Jake Attard2810ICT Software TechnologiesDate |

# Abstract

A 100 to 150 word executive summary of your findings. Do this last.

# Introduction

The purpose of this report is to analyse food inspections and health violations by using the data provided in the two excel documents inspections and violations. This information is then put into a sqlite database which is used to create Python programs which analyse and highlight key data as specified.

Task 1 required to create a new Python program called createddb\_food.py. The main purpose of this file was to create a sqlite database called ‘database.db’ which imports all the information from the insepctions.xlsx and violations.xlsx. All the column names from the excel files were used as the column name for the database. Within the database there was two tables created called inspections and violations.

Task 2 required to create a new Python program called sql\_food.py. This Python program lists all the distinctive businesses which have at least one violation. The businesses name is then listed alphabetically in the console with the count of the violations for each individual business. This data is then saved into the ‘database.db’ in a new table called previous\_violations. The table includes the columns of the business name, address, zip code and city.

Task 3 required to create a new Python program called excel\_food.py. This program file creates a new excel file called ViolationTypes.xlsx with the sheet name Violations Types. The purpose of the excel file is to display the total number of violations broken down into three columns showing the code, description and count. The total count of all violations is at the bottom of the data count (line 118).

## Database Structure

A description of the schema of your database (table names, attribute types)

# **Violation counts**

Based on Task 3 of your assignment, describe the results of your analysis (in addition to inserting the table from your excel workbook). Make any comments about the data you see fit.

# **Violations over time**

Based on Task 4 of your assignment, describe the results of your analysis (in addition to the graph – you may need to screenshot or otherwise export from your iPython console). Make any comments about the data you see fit.