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| Victoria Crash Statistics Data Analysis Executive Summary |
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# Abstract

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

# Introduction

The purpose of this report is to provide summaries of the analysis performed by the application created. The tasks that were required are as follows:

1. Display all information of accidents that occurred within a user defined period (days)
2. Produce a chart showing the number of accidents in each hour of the day.
3. Retrieve all accidents which match a user inputted keyword, such as ‘Pedestrian’ or ‘Collision’, within a user defined period.
4. Show the user an analysis of alcohol impact on accidents, show by charts of:
   1. Number of accidents involving alcohol per year.
   2. Number of accidents involving alcohol by weekday.
   3. Number of accidents involving alcohol by type of accident.
5. Produce a chart showing the number of accidents by weekday for a user defined period.

The data range used for each of the summaries will be 1/1/2014 – 1/1/2015 for all tasks except the yearly alcohol analysis, which will have the date range 1/1/2014 – 31/12/2018

Explains the purpose of this report. Include the date range covered, and the different analysis tasks performed

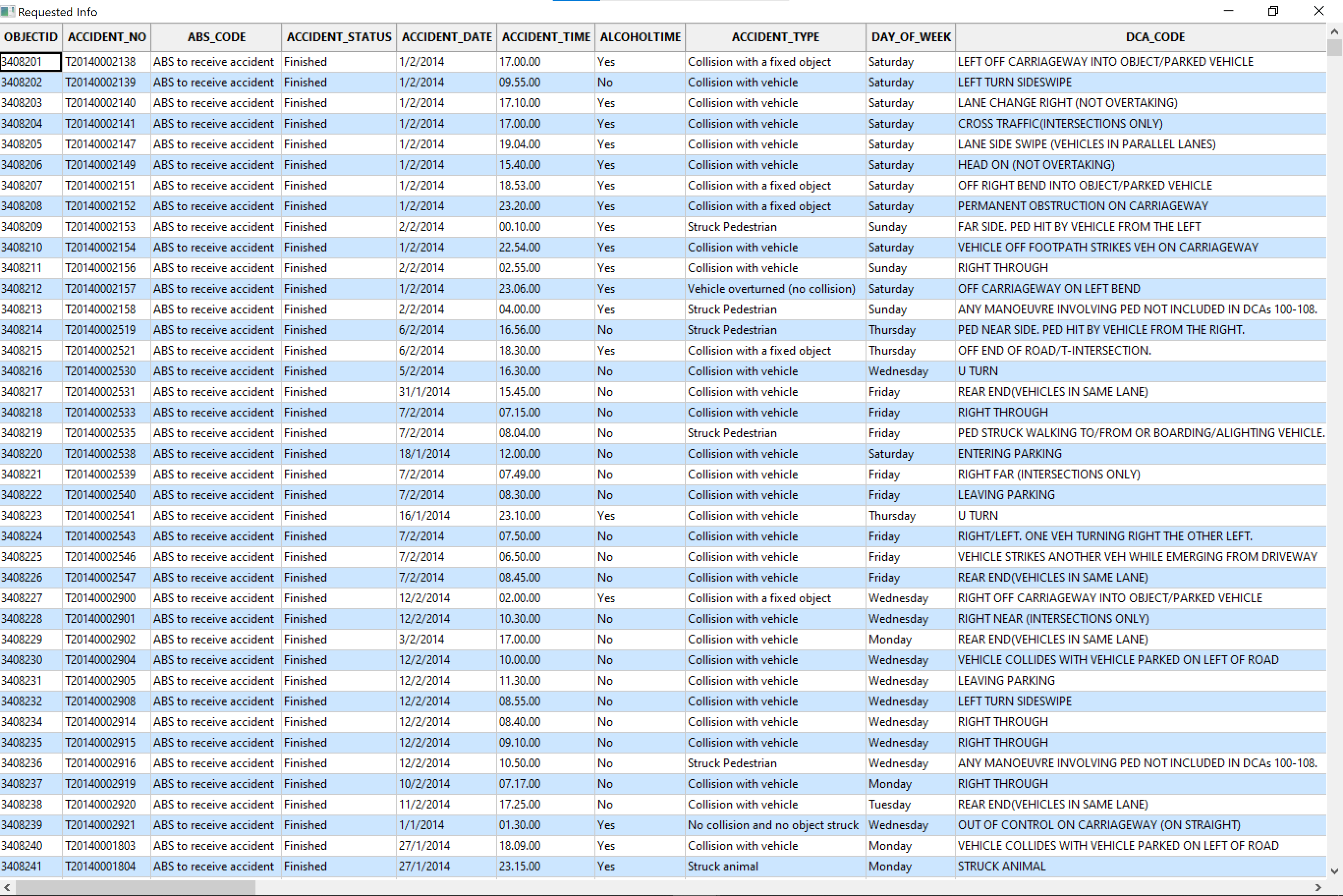
# **Analysis 1: Accidents within user defined time period**

The first required task is to display the information of all accidents that occur with a user stated time frame. As can be seen in Figure 1, the dates selected are 1/1/2014 and 1/1/2015. With the ‘All’ radio button selected, clicking search provides all the data from crashes in 2014. A sample of this data can be seen in Figure 2.

Graphical user interface, application

Description automatically generated

Figure



Figure

# **Analysis 2: Chart of hourly accidents**

The second task required a chart to be produced which displays the number of accidents that occur each hour of a day. Figure 3 shows the inputs, and the produced chart can be seen in Figure 4.

Judging by this data, more crashes occur on average in the mid to late afternoon, with 5pm being the most common time for a crash to occur. This makes sense, as more vehicles tend to be on the roads between 3-7pm due to the school/work day finishing.

Graphical user interface, text, application

Description automatically generated

Figure

Chart, histogram

Description automatically generated

Figure

# **Analysis 3 Find Accidents with keyword**

The third task was displaying all information on accidents which contained a user-inputed keyword in the ‘ACCIDENT\_TYPE’ attribute. Figure 5 shows an example with the keyword ‘Pedestrian’. A sample of the results can be seen in Figure 6. As shown, only accidents with the word ‘Pedestrian’ in the ‘ACCIDENT\_TYPE’ column are being displayed

Graphical user interface, application

Description automatically generated

Figure

Table

Description automatically generated

Figure

# **Analysis 4 <Add context to this title>**

# **Analysis 5 <Add context to this title>**

Based on the requirements of your dataset, put the results of your analysis of a 12 month date period for each of the required functionalities in these sections. Change the title names to reflect your dataset and the analysis being performed. You may include images from your program as well as your own description of the results.