Code Institute

# Interactive Frontend Development Milestone Project

## Design Specification

### Subject: Music Venue Connect Dashboard

### Purpose

The basis of this project is to explore some of the data presentation options that could be used in relation to my future business project utilising the type of information that I am currently using while running the Music Venue Connect business manually.

In the automated business that I am planning on setting up there will be an Admin section where members of our staff will have access to the system to perform maintenance and generate action lists based on what is happening in their area of responsibility. I would be aiming to use user specific dashboards to provide them with the necessary management level information to help them target their activities in the most productive manner possible.

### Scope

For this project the scope has been intentionally kept quite tight and only looking at some basic activity and financial information. In the business instance I would be looking to include a lot more sophisticated statistical analysis across a number of important business data points.

The current business supplies musical acts to venues across Kerry for a nominal commission. There are a large number of venues and acts that we deal with but to represent the type of data I would be looking to use on the dashboard in the automated business I selected 50 venues and created 20 fictional bands with a few general attributes that I would normally be using within the business.

Using Excel, I created a dataset combining some simple data attributes for the venues and acts and provided some random bookings across the year which completed the dataset for use in this exercise.

Below is a short snippet of the dataset that has been used.

| Date | nue | Act | Town | Genre | Price | Commissi | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|
| 04/01/2019 | Adams | Moondog | Dingle | Folk | 200 | 20 | 52.14198 | -10.2685 |
| 04/01/2019 | Ashes Bar | Jimmy Smith | Glenbeigh | Blues | 150 | 15 | 52.05656 | -9.93981 |
| 04/01/2019 | Bunkers Bar | One Man & Guitar | Killorglin | Pop | 180 | 18 | 52.10674 | -9.78812 |
| 04/01/2019 | McCarthys Bar | I'm Not Here | Dingle | Rock | 350 | 35 | 52.14246 | -10.2701 |
| 04/01/2019 | An Teach Beag | Nixer | Tralee | Trad | 250 | 25 | 52.26966 | -9.70591 |
| 04/01/2019 | The Mermaids | Cool Sounds | Listowel | Jazz | 400 | 40 | 52.44785 | -9.48574 |

This data is presented using splits and titles;

There will be a month selector included to dynamically change the data shown in the graphs based on the month selected.

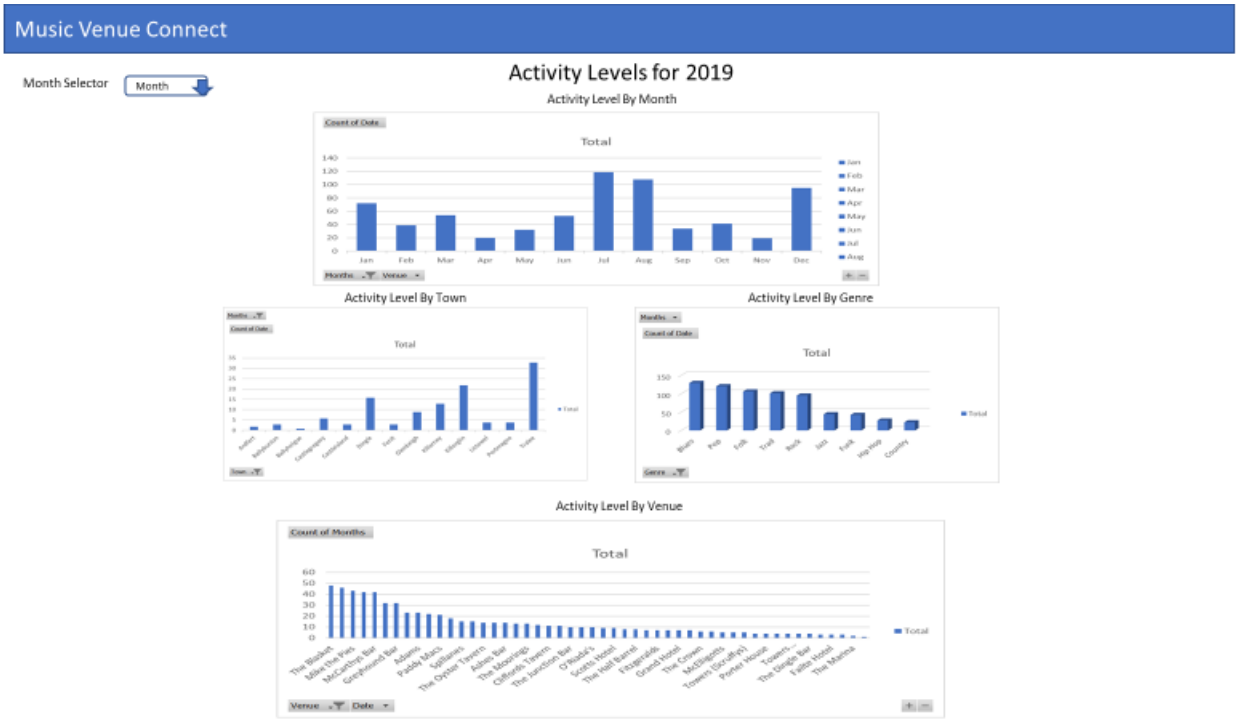
1. Annual number of bookings totalled by month in a barchart.
2. Total Gigs booked by town, genre and venue in separate barcharts.
3. The annual revenue figures shown in pie chart form with each slice representing a month of the year.
4. Additional pie charts showing the distribution of revenue based on the town and venue.
5. Finally a bar chart which shows the average commission earned from each of the venues in the dataset.

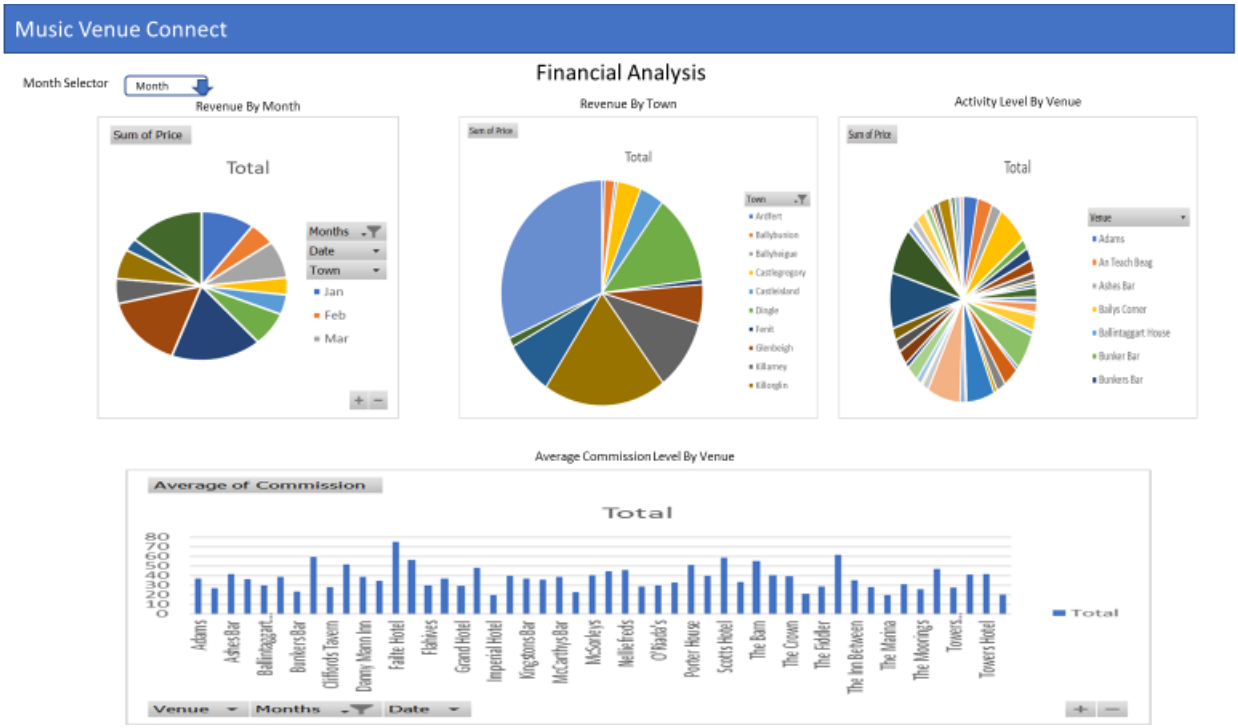
I included the Latitude and Longitude figures as I was hoping to include a map API with colour coded markers to show where the venues were with the most gigs. Unfortunately time did not allow me to include this in my final version.

## Look & Feel

There is quite a simple layout in relation to this project with the graphs distributed based on the data being represented, activity or financial. It is a single page site with just a few sections and a generic header and footer for aesthetic purposes.

A simple wireframe representation of what the page will look like is shown below;



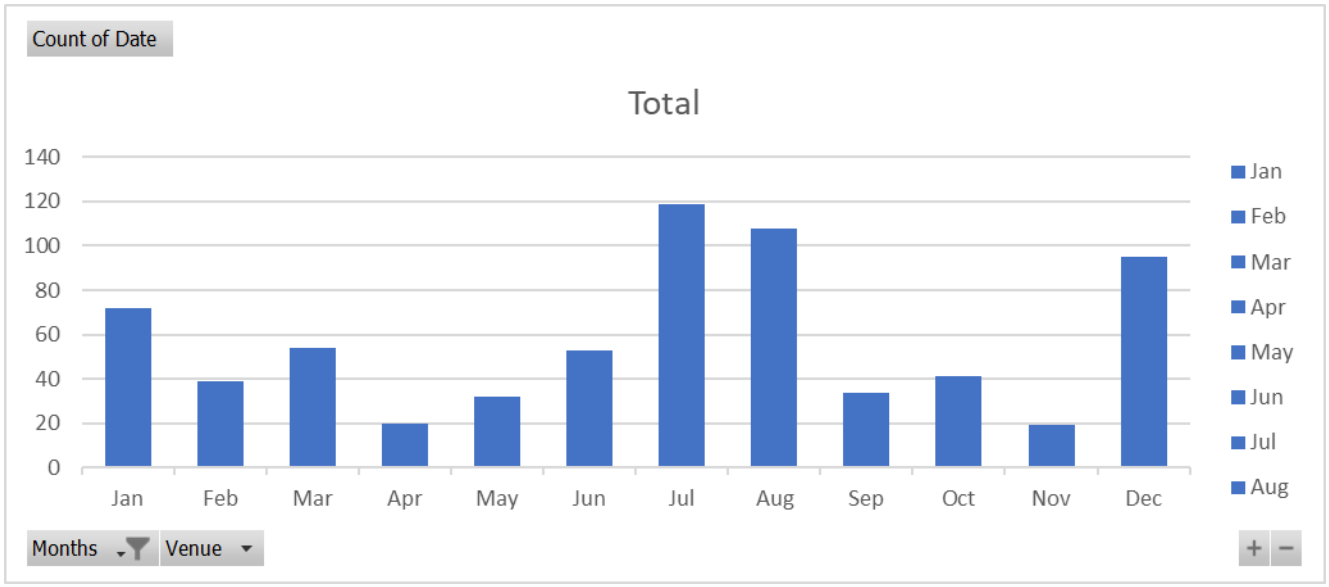




## Features

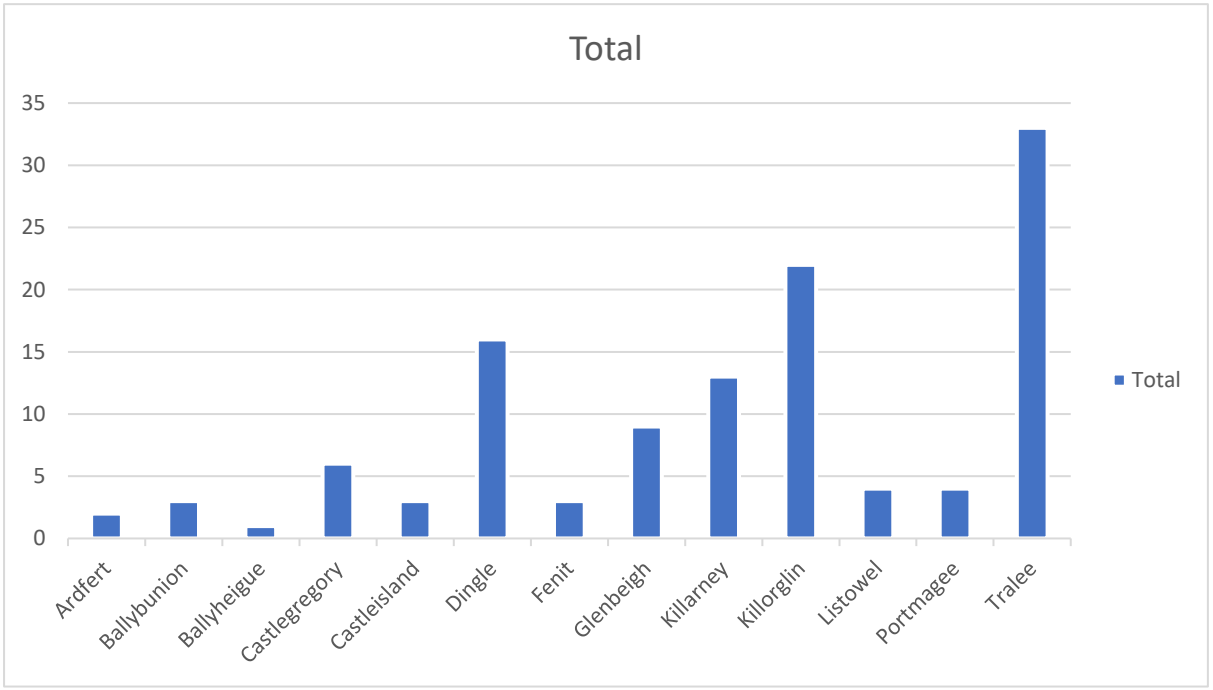
The dashboard will contain a combination of bar and pie charts as these are the best for representing the data that I am working with. The activity charts will all be bar charts and the financials will be represented using a combination of pie and bar charts. For data validation/testing and to get a handle on the data dynamics prior to generating the code for the dashboard I used pivot

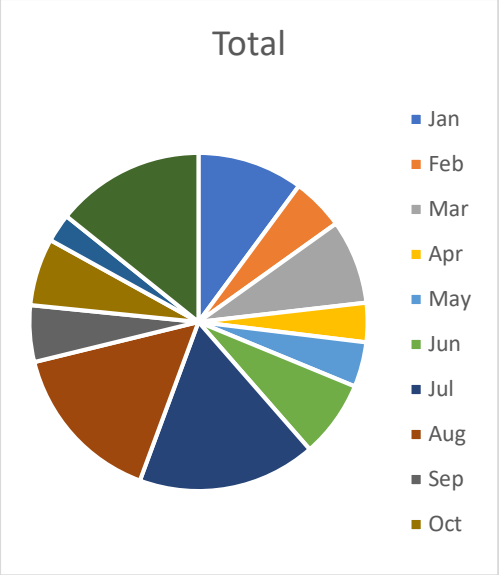
tables in Excel to give an idea of how the various charts should look and some of these can be seen below;

Total Number of Gigs Per Month




Total Gigs Per Town






These are just indicative charts to represent what would be presented on the actual output.

## Testing

To validate the output on the web solution I compared each of the output amounts using console.log against the output generated from the original Excel file used to generate the dataset for this project.