

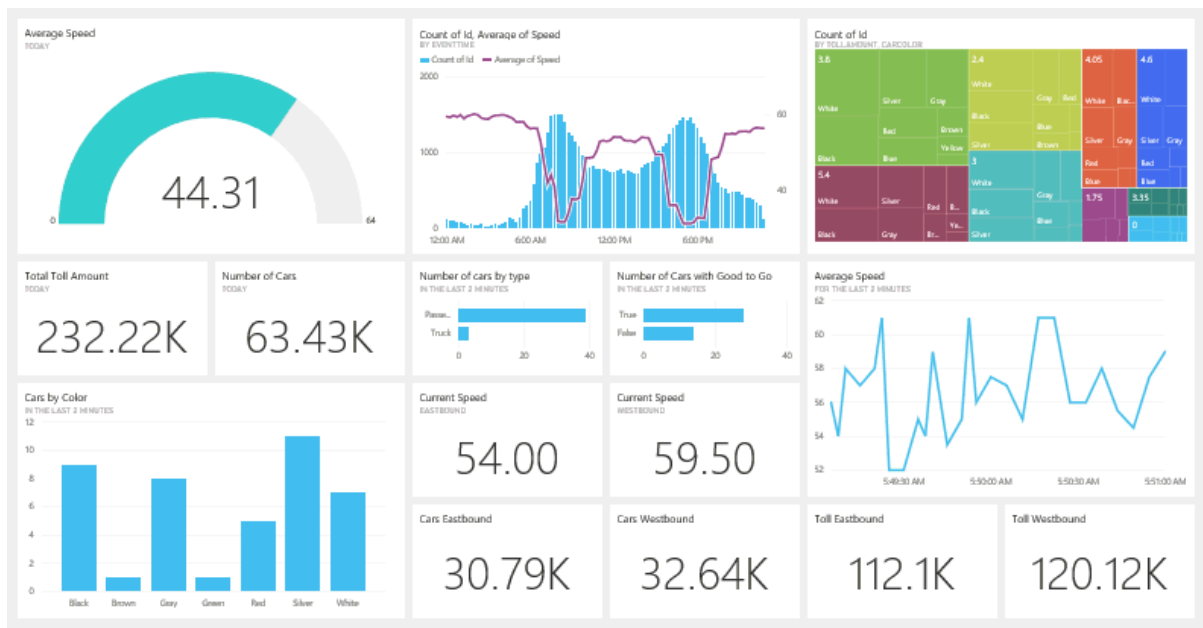
CA Assignment 3.

Assignment 3 is a project based assignment.

You have to design and build a database that could be used in a real world situation, ideally it should be useful in your workplace, but if this is not possible, then consider designing something for a charity, or perhaps a club that you are a member of. You can use a MySQL or MongoDB based solution.

Do not use real data in your solution. Sites like <https://www.mockaroo.com/> will generate realistic looking pseudo data for your needs. If you are developing a database for work, ensure that your employer is comfortable with everything included in your submission.

- Your design should have multiple (more than four) tables/collections
- Use drop downs where possible to limit users inputting poor data.
- Try to use a variety of relationships in your design, e.g. weak, Ternary, Multivalued etc.
- Appearance can be improved by the use of Cascading Style Sheets (CSS).
- Be brave in your approach, for example maybe even consider generating a real time dashboard of the data:



If you want, you can use reflect.dcu.ie to store your project work. This site is your eportfolio and will be available to you even after you leave DCU. It has a limitation of just 5MB of storage, but you can use Google Drive and Youtube to store any large files and videos, with links from your project. Make sure to share your portfolio/Google Drive folders with your tutors.

Deliverables for the project should include:

- Entity diagrams
- Relationship Matrix
- Entity Relationship Diagram
- All code used: SQL, PHP, Python, Java, Javascript, HTML etc.
- Any CSS used
- A short (less than 10 minute) Video explaining the project (press Windows G in windows 10 to record).
- Any relevant documents such as spreadsheets, powerpoint
- Include any relevant references and citations

I certify that my solution contains no real-world data, and for any work based elements of the project, my employer is fully aware and supportive of this project.

Signed
