**Technical Report**

For Project 2, we worked as a team to complete the ETL process on a dataset.

**Extract**

**Transform**

**&**

**Load**

After considering multiple topic areas and datasets our group decided on the topic of “gender representation within modern day video games across multiple platforms”.

We have three datasets (638 character data across 65 modern day popular games)

* We found and used three datasets that focused on gender representation within modern day video games, sourced from Kaggle.com & diamondlobby.com. These datasets were games data, character data & sexualisation info.
* We joined the data set based on Characters.ID = Sexulixation.ID & Game.Game ID = Character.Game.
* The types of functions we used as part of our transform element of the process is we cleaned select columns to ensure the dataframe in our jupyter notebook is similar to our tables within SQL over the 3 datasets and data tables. We cleaned up column names to either simplify names or renaming columns to shorter or more relevant names. (WAS THEIR ANYTHING ELSE WE DID)
* The Schemata that is used in the final production of our database is saved into our group Git Hub Repository at;

[Database Schema](https://github.com/kass173/Project-2/blob/main/Gen_Rep_%20Games.sql)

**Group Communication**

* To be able to complete this project effectively we ensure we had communication within our group. We put in place a few mediums firstly being opening a slack channel just with our group members in it.

Graphical user interface, text, application, chat or text message

Description automatically generated

Secondly we also created a WhatsApp group again just with our group members in it which we discuss the project during working hours and we also booked in extra session where we work together and on our respective parts using Team as the platform.

Graphical user interface, text, application, chat or text message

Description automatically generated

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Description automatically generated

* After gaining all the information needed about the project we managed to break it down into manageable work chunks but also having the availability of the team to work on our work targets which we identified and is show in the process map on our git repository.
* Process Map - [Project 2 Process Map](https://github.com/kass173/Project-2/blob/main/Process%20Map/Colorful%20Process%20Prjt%202.png)
* We created workload and separated then between the group and set deadline for review so that we had a realistic timeline to complete the project.
  + Project ideation
  + Data fetching
  + Data analysis
  + Cleaning & Transforming
  + Data loading into final database
  + Creating documentation (Technical report and Project Visuals)

Final Database

[Final SQL Database](https://github.com/kass173/Project-2#:~:text=yesterday-,Gen_Rep_%20Games.sql,-uploading%20final%20sequel)

* √ Extract: indicates the original data sources and how the data were formatted at a professional level
* √ Transform: explains what data clearing or transformation was required at a professional level
* √ Load: explains the final database, tables/collections, and why the topic was chosen at a professional level