**COMP-2702 – Data Management  
Final Project Proposal**

**Data Analyst’s Name: Cole Dorman**

**Project Name: Steam Market Value Analysis**

**Project Date: 17th April**

**Please answer each part. As in any documentation, you can merge different parts into a single paragraph. Also, delete the text under each numerical bullet list and the sentences in red!**

1. **Project Description:**
2. This project’s goal is to analyze the market to identify key submarkets that have the most growth potential, as determined by certain KPI’s such as a genre’s total revenue, whether that market is open and lastly what percentage of the total market it makes up.
3. I chose this project due to my connection with Game Development and my interest in the business world of games.
4. **Business Case**
5. As video games increase in popularity, steam is holding a dominant position. Due to this they have the largest quantity of valuable data. Due to this game developers could benefit massively from knowing which genres are the best investment of time, as games take quite a while to develop, being able to create one that is still in demand by the time it’s finished is vital.
6. My chosen data source is Steam itself. Steam provides a wealth of publicly available information through it’s API.

**NOTES:** Kaggle is a well-known source for free datasets, though others could be accepted. Each student should have a unique dataset (i.e., no matching datasets with other students).  
**You need to get approval by providing the link or the dataset (if possible) to your instructor in the Learn Dropbox.**

1. **Business Rules/Assumptions**
2. Make a list of business rules for the project. Remember to think in both directions. For example:
   * A resident can visit many tourist sites.
   * A tourist site may have many residents visiting.
   * A resident may visit a tourist site multiple times.
3. Understanding the Relationships by reworking the dataset into at minimum three separate tables ([Create and manage relationships in Power BI Desktop](https://learn.microsoft.com/en-us/power-bi/transform-model/desktop-create-and-manage-relationships))
4. **Entity Relationship Diagram (ERD)**
   1. Using Draw.IO diagramming, create the ERD diagram. Be sure to include meaningful field names and that your PK’s and FK’s identified. Remember, every table needs a primary key, and every relationship line needs a verb describing the relationship line.   
      Paste a screenshot below.
   2. Create an ERD that provides a Normalized view of the data, thus understanding what is duplicating within the data source and how you plan to develop the Reports and Dashboards.
   3. When you review the ERD with your instructor, **you will be asked the following questions**:
      * Open the ERD in the program you created it in.
      * Describe each entity and how they relate to each other in both directions.
      * Describe the symbols used on each line.
      * If there were any bridge or joiner tables created.
      * Explain why the table was created.
      * Explain what PK was created for the joiner/bridge table and what makes it a good primary key.
      * Explain FK’s in the bridge table and their purpose.
5. **Power BI Dashboard**

**Include five charts:**

* 1. A Slicers to filter any 2 (or more) of the following visuals:
     + 1 Column, Bar or Line Chart
     + 1 Ribbon/Waterfall/Funnel/Scatter/Pie or Donut Chart
     + 1 Table or Matrix
     + 1 Guage, Card, Multi-row Card, KPI
     + 1 Treemap, Map, Filled Map, Azure Map, Key Influencer, Q&A, Decomposition Tree
  2. **One** downloaded Certified Visual from Power BI Visuals to replace one of the previously listed Visuals.

1. **Annexure**

List of changes to the project concerning the understanding of data or relationships to prevent scope creep and just general working notes.