**ETL Project (Magic the Gathering ETL)**

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**EXTRACT** (Original Data Sources and Formats)

* **Magic The Gathering(MTG, collectable card games) from Kaggle**
* Source : <https://www.kaggle.com/mylesoneill/magic-the-gathering-cards>
* Format : JSON file ("./AllCards.json")
* **Card Price (War of the Spark)**
* Source : https://www.mtggoldfish.com/index/XLN\_GRN#paper
* Format : HTML file (pd.read\_html)

**TRANSFORM** (Data Cleaning or Transformation Process)

* **① Use ‘pd.read\_json’ to create a DataFrame of the cardinfo data**
* json\_file = "./AllCards.json"
* mtg\_df = pd.read\_json(json\_file)
* **② Tanspose the data, so that the card names go down vertically and into the index**
* mtg\_df = pd.DataFrame(mtg\_df.transpose())
* **③ Clean up the dataframe, select and rename columns**
* clean\_mtg\_df = mtg\_df[["index","convertedManaCost", "text", "type"]]
* clean\_mtg\_df = clean\_mtg\_df.rename(columns={"index":"cardname"})
* **④ DDD**
* **⑤ DDD**
* DDD

**Note : Please add the process of ‘Card Price’ file and Review the transformation process!**

**ETL Project** (2/2)

**LOAD** (Final Database and Tables)

* **Create SQLite database and Push Data inti it**
* Import squlalchemy and connecting to DBS
* Import methods needed to abstract classes into tables
* Declare column types
* **Set up a connection to the database**
* **Create the tables associated with the classes**
* **Push the pandas dataframe into the SQLite database**
* clean\_mtg\_df.to\_sql('cardinfo', con=engine, if\_exists='replace')
* clean\_price\_df.to\_sql('priceinfo', con=engine, if\_exists='replace')
* **DDD**

**Note : Please add the Load items**

**And you have to specify REASONS why this was chosen (Read HW Guidelines Readme)**

**Also, I think it would be great we can capture a db image here~**