

W4111_Fall_2024_003 -

Introduction to Databases:

Homework 3B

Game of Thrones Data and IMDB

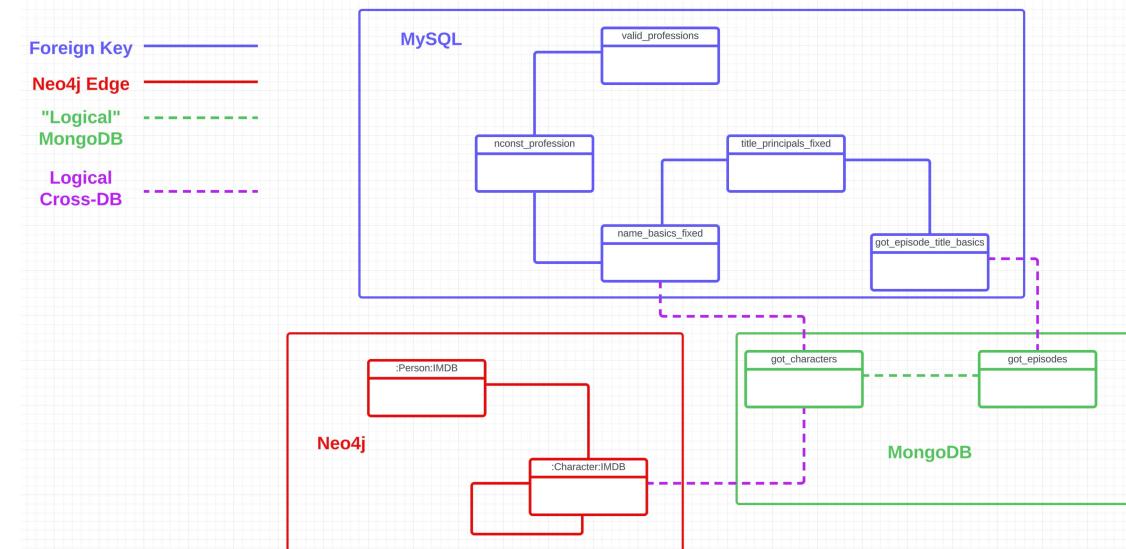
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Overview

The non-programming track builds data insight/support notebook for HW4b and the programming track builds a simple full stack web application. Provide the data model the applications need requires more processing after the initial load. HW3b is common to both tracks and provides the data for the final practical HW. The final data model/database has information in three separate databases:

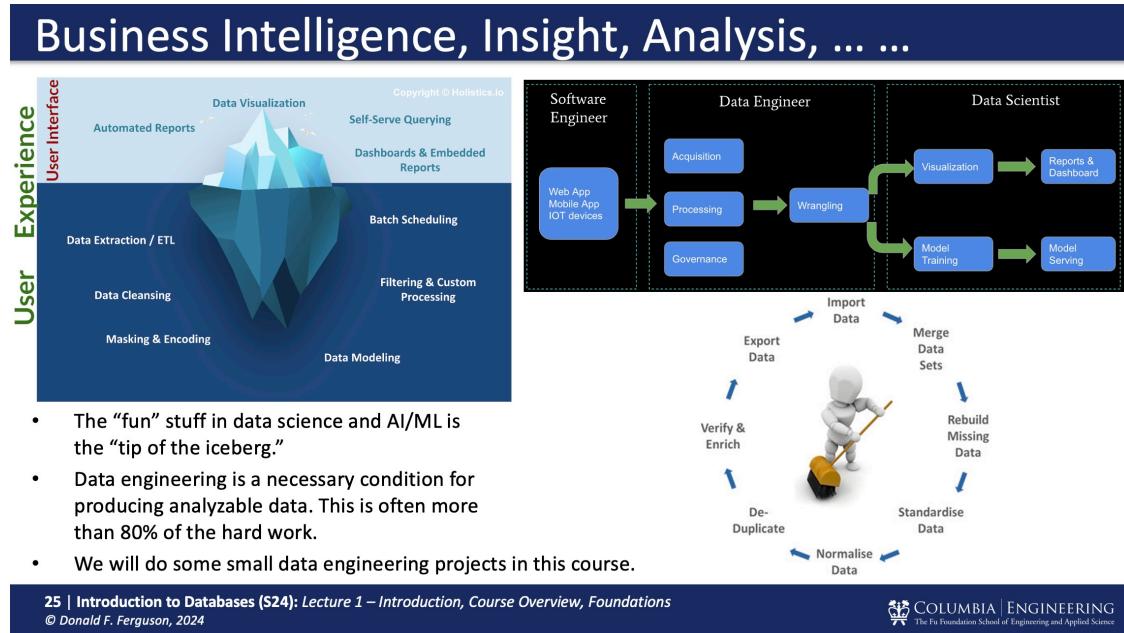
1. MySQL
2. Neo4j
3. MongoDB

The conceptual data model is:



Conceptual Data Model

In the data load setup notebook, we "loaded data." In this notebook, we process, cleanup and link the data. This is necessary for the data insight and operational applications. **Note: I provide the DDL or definition for the "to be" tables, etc.**



The Janitor

The sections and subsections below will:

1. Explain the entities and relationships.
2. Explain the data engineering tasks.
3. Provide a lot of helper code and provide some tests you can run while doing the work.

Code cells that students must complete contain a comment of the form "#TODO Student."

Initialize Environment

Execute the cells in this section. The cells are the same as from the data loading notebook I prepared for you.

General Python Packages

In [1]: `import copy`

In [2]: `import json`

In [3]: `import pandas`

```
In [4]: # You should have installed the packages for previous homework assignments
#
import pymysql
import sqlalchemy
```

```
In [5]: # You may have to do %pip installs to use the packages below.
#
# %pip install "pymongo[srv]"
#
import pymongo
```

```
In [6]: # You may have to do %pip installs to use the packages below.
#
# %pip install neo4j
#
import neo4j
```

```
In [7]: import numpy
```

MySQL

ipython-sql

```
In [8]: # You have installed and configured ipython-sql for previous assignments.
# https://pypi.org/project/ipython-sql/
#
%load_ext sql
```

```
In [9]: # Make sure that you set these values to the correct values for your installation and
# configuration of MySQL
#
db_user = "root"
db_password = "dbuserdbuser"
```

```
In [10]: # Create the URL for connecting to the database.
# Do not worry about the local_infile=1, I did that for wizard reasons that you should
# skip.
db_url = f"mysql+pymysql://{db_user}:{db_password}@localhost?local_infile=1"
```

```
In [11]: # Initialize ipython-sql
#
%sql $db_url
```

```
In [12]: # Your answer will be different based on the databases that you have created on your
# machine.
%sql show databases
```

* mysql+pymysql://root:***@localhost?local_infile=1
9 rows affected.

Out[12]:

Database

classicmodels

db_book

f24_project

hw1b_ng2695

information_schema

mysql

performance_schema

sys

w4111_hw2_ng2695

PyMySQL

```
In [13]: default_mysql_conn = pymysql.connect(
    user=db_user,
    password=db_password,
    host="localhost",
    port=3306,
    cursorclass=pymysql.cursors.DictCursor,
    autocommit=True
)
```

```
In [14]: def get_mysql_con(
    user=db_user,
    password=db_password,
    host="localhost",
    port=3306,
    cursorclass=pymysql.cursors.DictCursor,
    autocommit=True):

    result = pymysql.connect(
        user=db_user,
        password=db_password,
        host="localhost",
        port=3306,
        cursorclass=pymysql.cursors.DictCursor,
        autocommit=True
)

    return result
```

```
In [15]: cur = default_mysql_conn.cursor()

result = cur.execute("show databases;");
result = cur.fetchall()
```

```
result_df = pandas.DataFrame(result)
result_df
```

Out[15]:

Database

0	classicmodels
1	db_book
2	f24_project
3	hw1b_ng2695
4	information_schema
5	mysql
6	performance_schema
7	sys
8	w4111_hw2_ng2695

SQLAlchemy

```
In [16]: from sqlalchemy import create_engine
default_engine = create_engine(db_url)
```

```
In [17]: result_df = pandas.read_sql(
    "show databases", con=default_engine
)
result_df
```

Out[17]:

Database

0	classicmodels
1	db_book
2	f24_project
3	hw1b_ng2695
4	information_schema
5	mysql
6	performance_schema
7	sys
8	w4111_hw2_ng2695

MongoDB Atlas

```
In [18]: # TODO Student -- This should be the same as what you provided in the data Loading
#
# You will need to replace with your settings.
#
mongo_db_pw="3Z0GE7vkjPRB2io0"
mongodb_user="ng2695"
```

```
In [19]: # TODO Student -- This should be the same as what you provided in the data Loading
#
# You can get the URL and info below from looking at the connect instructions for y
#
mongo_db_url = f"mongodb+srv://{{mongodb_user}}:{{mongo_db_pw}}@w4111hw.aaajrd.mongodb.n
```

```
In [20]: mongo_client = pymongo.MongoClient(mongo_db_url)
```

```
In [21]: # Your list of databases will be different.
#
list(mongo_client.list_databases())
```

```
Out[21]: [{"name": "f24_project_got", "sizeOnDisk": 499712, "empty": False},
{"name": "sample_mflix", "sizeOnDisk": 128372736, "empty": False},
{"name": "admin", "sizeOnDisk": 393216, "empty": False},
{"name": "local", "sizeOnDisk": 8016089088, "empty": False}]
```

Neo4j

```
In [22]: # TODO Student -- This should be the same as what you provided in the data Loading
#
# You need to have created a Neo4j Aura DB with a user ID and information.
# Please make sure you copied the information for connecting.
# You can download this information when you create your instance.
# The download will be a text file with the information below.
# You will have to modify the file you download to wrap the strings with "
#
NEO4J_URI="neo4j+ssc://152bd215.databases.neo4j.io"
NEO4J_USERNAME="neo4j"
NEO4J_PASSWORD="Q1DShtnmlomcYoqFIT1_rv3XL4t-4ooCmWvKZUzWe1c"
AURA_INSTANCEID="152bd215"
AURA_INSTANCENAME="Instance01"
```

```
In [23]: from neo4j import GraphDatabase

# URI examples: "neo4j://localhost", "neo4j+s://xxx.databases.neo4j.io"
URI = NEO4J_URI
AUTH = (NEO4J_USERNAME, NEO4J_PASSWORD)

with GraphDatabase.driver(URI, auth=AUTH) as driver:
    driver.verify_connectivity()
```

Note: You should have already created a Neo4j account and loaded the Movie Database.

```
In [24]: # The following code assumes that you followed the tutorial for the Movie Database
#
with GraphDatabase.driver(URI, auth=AUTH) as driver:
    # driver.verify_connectivity()

    records, summary, keys = driver.execute_query(
        "MATCH (p:Person) where p.name='Tom Hanks' RETURN p.name AS name, p.born as
    )

    # Loop through results and do something with them
    # There is probably an easier way to do this.
    #
    person_records = []
    for person in records:
        new_p = dict(person)
        person_records.append(new_p)

    # Summary information
    print("The query `{query}` returned {records_count} records in {time} ms.".format(
        query=summary.query, records_count=len(records),
        time=summary.result_available_after,
    ))
```

The query `MATCH (p:Person) where p.name='Tom Hanks' RETURN p.name AS name, p.born as birth_year` returned 1 records in 31 ms.

```
In [25]: results_df = pandas.DataFrame(person_records)
results_df.head(10)
```

```
Out[25]:   name  birth_year
0  Tom Hanks      1956
```

IMDB

Overview

You should have created f24_project during data loading.

```
In [26]: %sql use f24_project;
* mysql+pymysql://root:***@localhost?local_infile=1
0 rows affected.
```

```
Out[26]: []
```

```
In [27]: %sql show tables;
* mysql+pymysql://root:***@localhost?local_infile=1
14 rows affected.
```

Out[27]: **Tables_in_f24_project**

```
got_episode_title_basics
    got_episodes
        got_names_episodes
            name_basics
                name_basics_fixed
                    nconst_profession
                        neo4j_characters
                            temp_relationships
                                title_basics
                                    title_basics_fixed
                                        title_principals
                                            title_principals_fixed
                                                title_ratings
                                                    valid_professions
```

These tables need schema improvement. The improvements involve changes to individual tables, splitting tables and linking tables. In the larger, original datasets, indexes are crucial. This is less of an issue in the reduced dataset, but we should create indexes anyway.

We will start improving and refactoring individual tables.

name_basics

In [28]: `%sql select * from name_basics limit 10;`

```
* mysql+pymysql://root:***@localhost?local_infile=1
10 rows affected.
```

Out[28]:

nconst	primaryName	birthYear	deathYear	primaryProfession	
nm0389698	B.J. Hogg	1955.0	2020.0	actor,music_department	tt0986233,tt1241
nm0269923	Michael Feast	1946.0	None	actor,composer,soundtrack	tt0120879,tt0471
nm0727778	David Rintoul	1948.0	None	actor,archive_footage	tt1139328,tt4781
nm6729880	Chuku Modu	1990.0	None	actor,writer,producer	tt4154664,tt2671
nm0853583	Owen Teale	1961.0	None	actor,writer,archive_footage	tt0102797,tt0941
nm0203801	Karl Davies	1982.0	None	actor,producer	tt3428912,tt7366
nm8257864	Megan Parkinson	None	None	actress,director,writer	tt0944947,tt2693
nm0571654	Fintan McKeown	None	None	actor	tt0112178,tt0110
nm1528121	Philip McGinley	1981.0	None	actor,archive_footage	tt0944947,tt1441
nm0000980	Jim Broadbent	1949.0	None	actor,writer,producer	tt0203009,tt143

There are four obvious problems with this schema:

1. `primaryName` is not an atomic domain.
2. `primaryProfession` is a multi-valued attribute, and the attribute values come from a fixed domain. The values are not arbitrary strings. "Canary" and "Battleship" are not professions in this context.
3. `knownForTitles` is also multi-valued and also has a foreign key dependency on other tables.
4. `birthYear` and `deathYear` are floats/doubles because we used Pandas for import, and Pandas import "detects" numbers.

Our first tasks are `primaryName`, `primaryProfession`, `birthYear` and `deathYear`.

We are not going to use `knownForTitles` in the project or homeworks.

A little examination of `primaryName` indicates that the format is complex and may have middle names, nicknames, titles, This is hard to fix in SQL or stored procedures. So, we will use a heuristic library -- [nameparser](#).

In [29]:

```
#  
# %pip install nameparser  
#  
from nameparser import HumanName
```

In [30]:

```
funny_name = "Dr. Donald F. (Snowball) Ferguson, III"
```

```
In [31]: cool_name = HumanName(funny_name)
```

```
In [32]: cool_name.as_dict()
```

```
Out[32]: {'title': 'Dr.',  
          'first': 'Donald',  
          'middle': 'F.',  
          'last': 'Ferguson',  
          'suffix': 'III',  
          'nickname': 'Snowball'}
```

The following is an improvement in the table schema that is "good enough for government work."

```
In [33]: %%sql
```

```
drop table if exists f24_project.nconst_profession;  
drop table if exists f24_project.title_principals_fixed;  
drop table if exists f24_project.name_basics_fixed;  
  
create table if not exists f24_project.name_basics_fixed  
(  
    nconst      varchar(16) not null  
        primary key,  
    title       varchar(32) null,  
    first_name  varchar(64) null,  
    middle_name varchar(64) null,  
    last_name   varchar(64) not null,  
    suffix      varchar(32) null,  
    nickname   varchar(64) null,  
    birth_year  int         null,  
    death_year  int         null,  
    constraint check_name  
        check ((`death_year` >= `birth_year`) or (`death_year` is null) or (`birth_`));  
  
create index name_basics_fixed_last_name_first_name_index  
    on f24_project.name_basics_fixed (last_name, first_name);  
  
* mysql+pymysql://root:***@localhost?local_infile=1  
0 rows affected.  
0 rows affected.  
0 rows affected.  
0 rows affected.  
0 rows affected.
```

```
Out[33]: []
```

The first task is to heuristically fix `primaryName` and load into `name_basics_fixed`

```
In [34]: # TODO Student -- Students must implement this function.
```

```
#  
def insert_name_basics_fixed(nconst, last_name,  
                               title=None, first_name=None, middle_name=None, suffix=  
                               birth_year=None, death_year=None):
```

```

"""
The input are the column values for the name_basics_fixed table. The function does the following:
:param nconst: IMDB nconst from name_basics
:param last_name: Last name value from HumanName
:param title: Title value from HumanName
:param first_name: First name value from HumanName
:param middle_name: Middle name value from HumanName
:param suffix: Suffix value from HumanName
:param nickname: Nickname value from HumanName
:param birth_year: birthYear from name_basics
:param death_year: deathYear from name_basics
:return: The number of rows inserted, which should be 1.
"""

# The number of rows inserted.
result = 0

# TODO Student -- Your code goes here.
with get_mysql_con() as con:
    cursor = con.cursor()
    sql = """
        insert into f24_project.name_basics_fixed
        values (%s, %s, %s, %s, %s, %s, %s, %s, %s)
    """
    values = (nconst, title, first_name, middle_name, last_name, suffix, nickname, birth_year, death_year)
    result = cursor.execute(sql, values)
    con.commit()

return result

```

The following is a simple test of the function you implemented above.

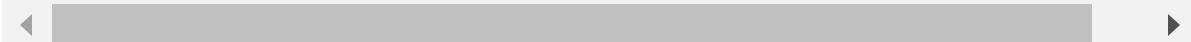
```
In [35]: try:
    result = insert_name_basics_fixed(
        "nm999",
        "Ferguson",
        "Dr.", "Donald", "F.", "III", "Snowball",
        1920, 2000)
    print("Insert result = ", result)
except Exception as e:
    print("Oops, e = ", e)
```

Insert result = 1

```
In [36]: %sql select * from f24_project.name_basics_fixed where last_name='Ferguson'
```

* mysql+pymysql://root:***@localhost?local_infile=1
1 rows affected.

nconst	title	first_name	middle_name	last_name	suffix	nickname	birth_year	death_yea
nm999	Dr.	Donald		F. Ferguson	III	Snowball	1920	2000



```
In [37]: # Let's get rid of the test data.
```

```
%sql delete from f24_project.name_basics_fixed where nconst='nm999';
* mysql+pymysql://root:***@localhost?local_infile=1
1 rows affected.

Out[37]: []

```

The following function will load the fixed table from the original table. It calls the function you wrote above.

```
In [38]: def load_name_basics_fixed(delete_existing_data=False):
    """
    This function loads name_basics_fixed by calling the previous function insert_n
    the function deletes the existing rows before inserting the new rows.
    """

    if delete_existing_data:
        # Note that the "%sql" only works in an ipython-note and does not work in p
        # Things like %xyz are notebook magics.
        #
        %sql delete from name_basics_fixed;

        # The with xxx() is common in python for connections, opening files, ... ...
        # Python automatically calls close() when the code exits the with block.
        #
        with get_mysql_con() as con:

            cursor = con.cursor()

            # This statement will query the original name_basics and produce a result s
            # the result is a cursor on the query result set. The data does not transfe
            # runtime until you fetch the data. This is the behavior of cursors.
            #
            # The code casts the dates from float to unsigned, which is a funny way to
            #
            # It turns out that either the original data or the subsetting work to prep
            # created duplicates. So, we use distinct.
            #
            sql = """
                select distinct
                    nconst, primaryName, cast(birthYear as unsigned) as birthYear, cast
                    primaryProfession, knownForTitles
                from f24_project.name_basics
            """

            # Execute the query and position the cursor.
            no_of_rows = cursor.execute(sql)

            # Count the number of rows inserted.
            rows_inserted = 0

            # We have used fetchall() in examples. This gets all of the data from the D
            # calling application. If the result set is huge, this call can swamp the n
            # ... Since the notebook display is in a browser, huge datasets will cause
            # So, we are going to "page through the result" and fetch in chunks.
            #

```

```

done = False
while not done:

    # Fetch a page of rows.
    the_names = cursor.fetchmany(20)

    # For each row in the page.
    for t in the_names:

        # Heuristically map the primaryName to the new format.
        #
        mapped_name = HumanName(t['primaryName']).as_dict()
        to_insert = dict()
        to_insert['title'] = mapped_name.get('title', None)
        to_insert['first_name'] = mapped_name.get('first', None)
        to_insert['middle_name'] = mapped_name.get('middle', None)
        to_insert['last_name'] = mapped_name.get('last', None)
        to_insert['suffix'] = mapped_name.get('suffix', None)
        to_insert['nickname'] = mapped_name.get('nickname', None)

        # Insert the row into name_basics_fixed in the new format.
        # "result" will be the number of rows inserted.
        try:
            result = insert_name_basics_fixed(
                t['nconst'],
                to_insert['last_name'],
                to_insert['title'],
                to_insert['first_name'],
                to_insert['middle_name'],
                to_insert['suffix'],
                to_insert['nickname'],
                t['birthYear'],
                t['deathYear']
            )
        except Exception as e:
            print("Exception happened, e = ", "\nfor row", e, t)

        # If we did not insert one row, something happened.
        if result != 1:
            print("Something weird happened with ", t)

        # Count the number of rows inserted.
        rows_inserted += result

    # If we did not get a full page of data, we processed the last page.
    if len(the_names) < 20:
        done = True

print("Read ", no_of_rows, "Inserted", rows_inserted)

```

In [39]: # Call the function.

```
load_name_basics_fixed(delete_existing_data=True)
```

```
* mysql+pymysql://root:***@localhost?local_infile=1
0 rows affected.
Read 348 Inserted 348
```

```
In [40]: # TODO Student. Test the Load.
```

```
#  
%sql use f24_project;  
  
%sql select * from name_basics_fixed limit 10;  
  
* mysql+pymysql://root:***@localhost?local_infile=1  
0 rows affected.  
* mysql+pymysql://root:***@localhost?local_infile=1  
10 rows affected.
```

```
Out[40]:
```

nconst	title	first_name	middle_name	last_name	suffix	nickname	birth_year	death
nm0000293		Sean		Bean			1959	
nm0000596		Jonathan		Pryce			1947	
nm0000980		Jim		Broadbent			1949	
nm0001097		Charles		Dance			1946	
nm0001290		Richard	E.	Grant			1957	
nm0001354		Ciarán		Hinds			1953	
nm0001671		Diana		Rigg			1938	
nm0002103		Julian		Glover			1935	
nm0004355		Roger		Ashton-Griffiths			1957	
nm0004692		Mark		Addy			1964	

primaryProfession

The common technique for handling multi-valued attributes is to create a second table with an entry for each value and a foreign key to the original table. The following SQL DDL creates two tables:

1. `valid_professions` contains the allowed value for `primaryProfession`. If there were a few allowed values, we could use an `ENUM`. Since there are many, we use a "lookup table."
2. `nconst_professions` is an associative entity between a `name_basics_fixed` and the `professions`.

```
In [41]:
```

```
%sql
```

```
use f24_project;
```

```
drop table if exists f24_project.nconst_profession;
drop table if exists f24_project.valid_professions;
```

```

create table if not exists f24_project.valid_professions
(
    profession_id      int auto_increment
        primary key,
    profession_label varchar(32) not null,
    constraint valid_professions_pk
        unique (profession_label)
);

create table if not exists f24_project.nconst_profession
(
    nconst      varchar(16) not null,
    profession_id int      not null,
    primary key (nconst, profession_id),
    constraint nconst_profession_name_basics_fixed_nconst_fk
        foreign key (nconst) references f24_project.name_basics_fixed (nconst),
    constraint nconst_profession_valid_professions_profession_id_fk
        foreign key (profession_id) references f24_project.valid_professions (profession_id)
);

* mysql+pymysql://root:***@localhost?local_infile=1
0 rows affected.

Out[41]: []

```

In the cells below, you must load `valid_professions` and `nconst_profession`.

You must use SQL. You cannot use python, Pandas,

Your SQL can assume that there are at most 3 primaryProfessions. The following SQL validates the assumption.

```

In [42]: %%sql

with one as (
    select
        primaryProfession,
        replace(primaryProfession, ",", "") as without_delimiter,
        (length(primaryProfession) - length(replace(primaryProfession, ",", ""))) +
    from name_basics
)
select * from one order by no_of_professions desc limit 10;

* mysql+pymysql://root:***@localhost?local_infile=1
10 rows affected.

```

Out[42]:

primaryProfession	without_delimmeter	no_of_professions
actor,miscellaneous,stunts	actormiscellaneousstunts	3
actor,composer,soundtrack	actorcomposersoundtrack	3
assistant_director,actor,miscellaneous	assistant_directoractormiscellaneous	3
actor,writer,producer	actorwriterproducer	3
actor,writer,archive_footage	actorwriterarchive_footage	3
actress,soundtrack,archive_footage	actresssoundtrackarchive_footage	3
actress,director,writer	actressdirectorwriter	3
actor,stunts,miscellaneous	actorstuntsmiscellaneous	3
actor,director,writer	actordirectorwriter	3
actor,writer,producer	actorwriterproducer	3

In [43]:

```
%%sql

/*
    TODO Student -- Put your SQL below.
*/

insert into f24_project.valid_professions (profession_label)
with recursive split_strings as (
    select
        substring_index(primaryProfession, ',', 1) as part,
        substring(primaryProfession, length(substring_index(primaryProfession, ',', 1)),
from name_basics
where primaryProfession is not null
union all
    select
        substring_index(remaining_string, ',', 1),
        substring(remaining_string, length(substring_index(remaining_string, ',', 1)),
from split_strings
where remaining_string != ''
)
    select distinct part from split_strings where part != '';

* mysql+pymysql://root:***@localhost?local_infile=1
32 rows affected.
```

Out[43]: []

In [44]:

```
%%sql

/*
    TODO Student -- Put your SQL below.
*/

insert ignore into f24_project.nconst_profession (nconst, profession_id)
with recursive split_strings as (
    select
```

```

nb.nconst,
substring_index(nb.primaryProfession, ',', 1) as part,
substring(nb.primaryProfession, length(substring_index(nb.primaryProfession
from f24_project.name_basics nb
where nb.primaryProfession is not null
union all
select
nb.nconst,
substring_index(ss.remaining_string, ',', 1) as part,
substring(ss.remaining_string, length(substring_index(ss.remaining_string,
from split_strings ss
join f24_project.name_basics nb on ss.nconst = nb.nconst
where ss.remaining_string != ''
)
select ss.nconst, vp.profession_id from split_strings ss join f24_project.valid_pro
on ss.part = vp.profession_label where ss.part != '';
* mysql+pymysql://root:***@localhost?local_infile=1
734 rows affected.

```

Out[44]: []

Now we can do a little test.

In [45]: %%sql

```

with one as (
    select *
    from
        name_basics_fixed join nconst_profession using(nconst)
),
two as (
    select nconst, profession_id from name_basics_fixed join nconst_profession
),
three as (
    select two.nconst, group_concat(profession_label) as
        all_professions from two join valid_professions using(profession_id) group
)
select nconst, primaryProfession, three.all_professions from three join name_basics
    order by nconst
limit 20;
* mysql+pymysql://root:***@localhost?local_infile=1
20 rows affected.

```

Out[45]:

nconst	primaryProfession	all_prof
nm0000293	actor,producer,animation_department	actor,producer,animation_department
nm0000596	actor,producer,soundtrack	actor,producer,soundtrack
nm0000980	actor,writer,producer	actor,producer,writer
nm0001097	actor,producer,director	actor,producer,director
nm0001290	actor,director,writer	actor,writer,producer
nm0001354	actor,soundtrack,archive_footage	actor,archive_footage,soundtrack
nm0001671	actress,costume_department,costume_designer	actress,costume_department,costume_designer
nm0002103	actor,soundtrack,archive_footage	actor,archive_footage,soundtrack
nm0004355	actor,writer,director	actor,writer,director
nm0004692	actor,music_department,soundtrack	actor,music_department,soundtrack
nm0015382	actor,director,writer	actor,writer,director
nm0019885	actor,producer,soundtrack	actor,producer,soundtrack
nm0050520	actor,miscellaneous	actor,miscellaneous
nm0050959	actor,producer,soundtrack	actor,producer,soundtrack
nm0057965	actor,miscellaneous	actor,miscellaneous
nm0064155	actor,director,writer	actor,writer,director
nm0065874	actor,archive_footage	actor,archive_footage
nm0072855	actor	actor
nm0087432	actor,archive_footage	actor,archive_footage
nm0103195	actor,location_management,soundtrack	actor,soundtrack,location_management

◀ ▶

knownForTitles

I think you have had enough fun with `name_basics` for now.

title_basics

We can find the mapping of actors to shows using `name_basics_fixed`, `title_principals` and `title_nasics`.

For bringing together some interesting information, we are not going to be concerned about some of the fields.

The following script does the subsetting and cleanup for you so that you do not need to do so.

In [46]:

```
%%sql

drop table if exists title_principals_fixed;
drop table if exists title_basics_fixed;

/*
    Create the fixed title_principals_fixed as just the columns that interest us.
*/
create table title_principals_fixed as select distinct nconst, tconst from title_principals

/*
    Add a primary key to ensure we only connect a name_basics_fixed to a title_basics_fixed.
*/
alter table title_principals_fixed
    modify nconst varchar(16) null;
alter table title_principals_fixed
    modify tconst varchar(16) null;
alter table title_principals_fixed
    add constraint title_principals_fixed_pk
        primary key (nconst, tconst);

/*
    Creating the primary key gives us an index for joining with name_basics_fixed.
    Add an index for joining with title_basics_fixed
*/
create index title_principals_fixed_tconst_index
    on title_principals_fixed (tconst);

/*
    Get the interesting columns from title_basics
*/
create table title_basics_fixed as
    select tconst,
        primaryTitle as primary_title,
        originalTitle as original_title,
        startYear as start_year,
        endYear as end_year,
        runtimeMinutes as runtime_minutes
    from title_basics;

/*
    Set a primary key.
*/
alter table title_basics_fixed
    modify tconst varchar(16) null;
alter table title_basics_fixed
    add constraint title_basics_fixed_pk
        primary key (tconst);

/*
    Change the doubles to int. We loaded with Pandas which maps numbers to doubles.
*/
```

```

alter table title_basics_fixed
    modify start_year int null;
alter table title_basics_fixed
    modify end_year int null;

/*
    Add foreign keys in the associative entity.
*/
alter table title_principals_fixed
    add constraint title_principals_fixed_title_basics_fixed_tconst_fk
        foreign key (tconst) references title_basics_fixed (tconst);
alter table title_principals_fixed
    add constraint title_principals_fixed_title_basics_fixed_nconst_fk
        foreign key (nconst) references name_basics_fixed (nconst);

/*
    If I got that correct, it was a miracle.
*/

```

```

* mysql+pymysql://root:***@localhost?local_infile=1
0 rows affected.
0 rows affected.
32427 rows affected.
32427 rows affected.
32427 rows affected.
0 rows affected.
0 rows affected.
29058 rows affected.
29058 rows affected.
0 rows affected.
29058 rows affected.
29058 rows affected.
32427 rows affected.
32427 rows affected.
0 rows affected.

```

Out[46]: []

Game of Thrones

Overview

In IMDB, we know which actors were in which "episodes."

In the load of MongoDB we have information about episodes.

Let's build a table of the form:

- tconst, primary_title from title_basics_fixed
- seasonNum, episodeNum from episodes in MongodDB.

You will do this in 3 steps.

1. Create a temporary table `got_episodes` in MySQL of the form `tconst, seasonNum, episodesNum` getting information from your MongoDB database.
2. Create a table `got_imdb_title_basics` by joining `title_basics_fixed` and the temporary table.
3. Do some cleanup of the resulting table.

Temporary Table `got_episodes`

The first step is to write an aggregation. Your data loading notebook had an example.

Let's refresh our MongoDB connection and then write the aggregation. You implement your aggregation below.

To help, here is my answer.

[231]:	season_num	episode_num	episode_title	tconst
0	1	1	Winter Is Coming	tt1480055
1	1	2	The Kingsroad	tt1668746
2	1	3	Lord Snow	tt1829962
3	1	4	Cripples, Bastards, and Broken Things	tt1829963
4	1	5	The Wolf and the Lion	tt1829964
...
68	8	2	A Knight of the Seven Kingdoms	tt6027908
69	8	3	The Long Night	tt6027912
70	8	4	The Last of the Starks	tt6027914
71	8	5	The Bells	tt6027916
72	8	6	The Iron Throne	tt6027920

73 rows x 4 columns

GoT Episode Summary

In [47]: `mongo_client = pymongo.MongoClient(mongo_db_url)`

In [48]: `# TODO Student -- Write your aggregation here. See below to see what the answer looks like`

```
# 
# Aggregation pipeline
#
pipeline = [
    {
        "$project": {
            "_id": 0,
            "season_num": "$seasonNum",
            "episode_num": "$episodeNum",
            "episode_title": "$episodeTitle",
    }
]
```

```

        "tconst": {
            "$arrayElemAt": [
                {"$split": ["$episodeLink", "/"]},
                2
            ]
        }
    }
]

# Execute the aggregation pipeline
result = mongo_client.f24_project_got.episodes.aggregate(pipeline)

```

In [49]: # Load into a dataframe and show your result.

```

#
result_df = pandas.DataFrame(list(result))
result_df

```

Out[49]:

	season_num	episode_num	episode_title	tconst
0	1	1	Winter Is Coming	tt1480055
1	1	2	The Kingsroad	tt1668746
2	1	3	Lord Snow	tt1829962
3	1	4	Cripples, Bastards, and Broken Things	tt1829963
4	1	5	The Wolf and the Lion	tt1829964
...
68	8	2	A Knight of the Seven Kingdoms	tt6027908
69	8	3	The Long Night	tt6027912
70	8	4	The Last of the Starks	tt6027914
71	8	5	The Bells	tt6027916
72	8	6	The Iron Throne	tt6027920

73 rows × 4 columns

In [50]: # Save in the temporary table.

```

#
result_df.to_sql(
    "got_episodes", schema="f24_project", if_exists="replace", index=False, con=def
)

```

Out[50]: 73

In [51]: %sql select * from f24_project.got_episodes;

```

* mysql+pymysql://root:***@localhost?local_infile=1
73 rows affected.

```

Out[51]:	season_num	episode_num	episode_title	tconst
	1	1	Winter Is Coming	tt1480055
	1	2	The Kingsroad	tt1668746
	1	3	Lord Snow	tt1829962
	1	4	Cripples, Bastards, and Broken Things	tt1829963
	1	5	The Wolf and the Lion	tt1829964
	1	6	A Golden Crown	tt1837862
	1	7	You Win or You Die	tt1837863
	1	8	The Pointy End	tt1837864
	1	9	Baelor	tt1851398
	1	10	Fire and Blood	tt1851397
	2	1	The North Remembers	tt1971833
	2	2	The Night Lands	tt2069318
	2	3	What Is Dead May Never Die	tt2070135
	2	4	Garden of Bones	tt2069319
	2	5	The Ghost of Harrenhal	tt2074658
	2	6	The Old Gods and the New	tt2085238
	2	7	A Man Without Honor	tt2085239
	2	8	The Prince of Winterfell	tt2085240
	2	9	Blackwater	tt2084342
	2	10	Valar Morghulis	tt2112510
	3	1	Valar Dohaeris	tt2178782
	3	2	Dark Wings, Dark Words	tt2178772
	3	3	Walk of Punishment	tt2178802
	3	4	And Now His Watch Is Ended	tt2178798
	3	5	Kissed by Fire	tt2178788
	3	6	The Climb	tt2178812
	3	7	The Bear and the Maiden Fair	tt2178814
	3	8	Second Sons	tt2178806
	3	9	The Rains of Castamere	tt2178784
	3	10	Mhysa	tt2178796

season_num	episode_num	episode_title	tconst
4	1	Two Swords	tt2816136
4	2	The Lion and the Rose	tt2832378
4	3	Breaker of Chains	tt2972426
4	4	Oathkeeper	tt2972428
4	5	First of His Name	tt3060856
4	6	The Laws of Gods and Men	tt3060910
4	7	Mockingbird	tt3060876
4	8	The Mountain and the Viper	tt3060782
4	9	The Watchers on the Wall	tt3060858
4	10	The Children	tt3060860
5	1	The Wars to Come	tt3658012
5	2	The House of Black and White	tt3846626
5	3	High Sparrow	tt3866836
5	4	Sons of the Harpy	tt3866838
5	5	Kill the Boy	tt3866840
5	6	Unbowed, Unbent, Unbroken	tt3866842
5	7	The Gift	tt3866846
5	8	Hardhome	tt3866850
5	9	The Dance of Dragons	tt3866826
5	10	Mother's Mercy	tt3866862
6	1	The Red Woman	tt3658014
6	2	Home	tt4077554
6	3	Oathbreaker	tt4131606
6	4	Book of the Stranger	tt4283016
6	5	The Door	tt4283028
6	6	Blood of My Blood	tt4283054
6	7	The Broken Man	tt4283060
6	8	No One	tt4283074
6	9	Battle of the Bastards	tt4283088
6	10	The Winds of Winter	tt4283094

season_num	episode_num	episode_title	tconst
7	1	Dragonstone	tt5654088
7	2	Stormborn	tt5655178
7	3	The Queen's Justice	tt5775840
7	4	The Spoils of War	tt5775846
7	5	Eastwatch	tt5775854
7	6	Beyond the Wall	tt5775864
7	7	The Dragon and the Wolf	tt5775874
8	1	Winterfell	tt5924366
8	2	A Knight of the Seven Kingdoms	tt6027908
8	3	The Long Night	tt6027912
8	4	The Last of the Starks	tt6027914
8	5	The Bells	tt6027916
8	6	The Iron Throne	tt6027920

In [52]:

```
%%sql

drop table if exists f24_project.got_episode_title_basics;

create table got_episode_title_basics as
select
    tconst, primary_title, season_num,
    episode_num, episode_title
from got_episodes join title_basics_fixed using(tconst)

* mysql+pymysql://root:***@localhost?local_infile=1
0 rows affected.
73 rows affected.
```

Out[52]: []

In [53]:

```
%%sql select * from got_episode_title_basics

* mysql+pymysql://root:***@localhost?local_infile=1
73 rows affected.
```

Out[53]:	tconst	primary_title	season_num	episode_num	episode_title
	tt1480055	Winter Is Coming	1	1	Winter Is Coming
	tt1668746	The Kingsroad	1	2	The Kingsroad
	tt1829962	Lord Snow	1	3	Lord Snow
	tt1829963	Cripples, Bastards, and Broken Things	1	4	Cripples, Bastards, and Broken Things
	tt1829964	The Wolf and the Lion	1	5	The Wolf and the Lion
	tt1837862	A Golden Crown	1	6	A Golden Crown
	tt1837863	You Win or You Die	1	7	You Win or You Die
	tt1837864	The Pointy End	1	8	The Pointy End
	tt1851398	Baelor	1	9	Baelor
	tt1851397	Fire and Blood	1	10	Fire and Blood
	tt1971833	The North Remembers	2	1	The North Remembers
	tt2069318	The Night Lands	2	2	The Night Lands
	tt2070135	What Is Dead May Never Die	2	3	What Is Dead May Never Die
	tt2069319	Garden of Bones	2	4	Garden of Bones
	tt2074658	The Ghost of Harrenhal	2	5	The Ghost of Harrenhal
	tt2085238	The Old Gods and the New	2	6	The Old Gods and the New
	tt2085239	A Man Without Honor	2	7	A Man Without Honor
	tt2085240	The Prince of Winterfell	2	8	The Prince of Winterfell
	tt2084342	Blackwater	2	9	Blackwater
	tt2112510	Valar Morghulis	2	10	Valar Morghulis
	tt2178782	Valar Dohaeris	3	1	Valar Dohaeris
	tt2178772	Dark Wings, Dark Words	3	2	Dark Wings, Dark Words
	tt2178802	Walk of Punishment	3	3	Walk of Punishment
	tt2178798	And Now His Watch Is Ended	3	4	And Now His Watch Is Ended
	tt2178788	Kissed by Fire	3	5	Kissed by Fire
	tt2178812	The Climb	3	6	The Climb
	tt2178814	The Bear and the Maiden Fair	3	7	The Bear and the Maiden Fair
	tt2178806	Second Sons	3	8	Second Sons

tconst	primary_title	season_num	episode_num	episode_title
tt2178784	The Rains of Castamere	3	9	The Rains of Castamere
tt2178796	Mhysa	3	10	Mhysa
tt2816136	Two Swords	4	1	Two Swords
tt2832378	The Lion and the Rose	4	2	The Lion and the Rose
tt2972426	Breaker of Chains	4	3	Breaker of Chains
tt2972428	Oathkeeper	4	4	Oathkeeper
tt3060856	First of His Name	4	5	First of His Name
tt3060910	The Laws of Gods and Men	4	6	The Laws of Gods and Men
tt3060876	Mockingbird	4	7	Mockingbird
tt3060782	The Mountain and the Viper	4	8	The Mountain and the Viper
tt3060858	The Watchers on the Wall	4	9	The Watchers on the Wall
tt3060860	The Children	4	10	The Children
tt3658012	The Wars to Come	5	1	The Wars to Come
tt3846626	The House of Black and White	5	2	The House of Black and White
tt3866836	High Sparrow	5	3	High Sparrow
tt3866838	Sons of the Harpy	5	4	Sons of the Harpy
tt3866840	Kill the Boy	5	5	Kill the Boy
tt3866842	Unbowed, Unbent, Unbroken	5	6	Unbowed, Unbent, Unbroken
tt3866846	The Gift	5	7	The Gift
tt3866850	Hardhome	5	8	Hardhome
tt3866826	The Dance of Dragons	5	9	The Dance of Dragons
tt3866862	Mother's Mercy	5	10	Mother's Mercy
tt3658014	The Red Woman	6	1	The Red Woman
tt4077554	Home	6	2	Home
tt4131606	Oathbreaker	6	3	Oathbreaker
tt4283016	Book of the Stranger	6	4	Book of the Stranger
tt4283028	The Door	6	5	The Door
tt4283054	Blood of My Blood	6	6	Blood of My Blood

tconst	primary_title	season_num	episode_num	episode_title
tt4283060	The Broken Man	6	7	The Broken Man
tt4283074	No One	6	8	No One
tt4283088	Battle of the Bastards	6	9	Battle of the Bastards
tt4283094	The Winds of Winter	6	10	The Winds of Winter
tt5654088	Dragonstone	7	1	Dragonstone
tt5655178	Stormborn	7	2	Stormborn
tt5775840	The Queen's Justice	7	3	The Queen's Justice
tt5775846	The Spoils of War	7	4	The Spoils of War
tt5775854	Eastwatch	7	5	Eastwatch
tt5775864	Beyond the Wall	7	6	Beyond the Wall
tt5775874	The Dragon and the Wolf	7	7	The Dragon and the Wolf
tt5924366	Winterfell	8	1	Winterfell
tt6027908	A Knight of the Seven Kingdoms	8	2	A Knight of the Seven Kingdoms
tt6027912	The Long Night	8	3	The Long Night
tt6027914	The Last of the Starks	8	4	The Last of the Starks
tt6027916	The Bells	8	5	The Bells
tt6027920	The Iron Throne	8	6	The Iron Throne

We can now create a view to show us how IMDB and GoT data align on some information.

In [54]:

```
%sql
drop view if exists got_names_episodes;

create view got_names_episodes as
with one as (
    select * from got_episode_title_basics join title_principals_fixed using(tconst)
)
select
    nconst, first_name, last_name,
    tconst, season_num, episode_num, episode_title
from one join name_basics_fixed using(nconst);

* mysql+pymysql://root:***@localhost?local_infile=1
0 rows affected.
0 rows affected.
```

Out[54]: []

In [55]: %sql select * from got_names_episodes limit 10

```
* mysql+pymysql://root:***@localhost?local_infile=1
10 rows affected.
```

Out[55]:

nconst	first_name	last_name	tconst	season_num	episode_num	episode_title
nm0000293	Sean	Bean	tt1480055	1	1	Winter Is Coming
nm0004692	Mark	Addy	tt1480055	1	1	Winter Is Coming
nm0182666	Nikolaj	Coster-Waldau	tt1480055	1	1	Winter Is Coming
nm0265610	Michelle	Fairley	tt1480055	1	1	Winter Is Coming
nm0322513	Iain	Glen	tt1480055	1	1	Winter Is Coming
nm0372176	Lena	Headey	tt1480055	1	1	Winter Is Coming
nm0516003	Harry	Lloyd	tt1480055	1	1	Winter Is Coming
nm1414435	Robert	Sterne	tt1480055	1	1	Winter Is Coming
nm3229685	Kit	Harington	tt1480055	1	1	Winter Is Coming
nm3592338	Emilia	Clarke	tt1480055	1	1	Winter Is Coming

Neo4j

Overview

Neo4j is a graph database. Graph databases are excellent for "networks" of "social connections." Those of you who have watched Game of Thrones know that the social connections can be a little unsettling. The connections between characters are in the characters collection. Let's take a look at an example. `Sansa Stark` has quite a few connections.

```
In [56]: result = mongo_client.f24_project_got.characters.find({"characterName": "Sansa Star
In [57]: result = list(result)
In [58]: result[0]
```

```
Out[58]: {'_id': ObjectId('6753ac0dedad7a377c536654'),
  'characterName': 'Sansa Stark',
  'houseName': 'Stark',
  'characterImageThumb': 'https://images-na.ssl-images-amazon.com/images/M/MV5BNjAwMjE2NDExNF5BM15BanBnXkFtZTcwODAwODg40Q@@._V1._SX100_SY140_.jpg',
  'characterImageFull': 'https://images-na.ssl-images-amazon.com/images/M/MV5BNjAwMjE2NDExNF5BM15BanBnXkFtZTcwODAwODg40Q@@._V1_SY1000_CR0,0,806,1000_AL_.jpg',
  'characterLink': '/character/ch0158137/',
  'actorName': 'Sophie Turner',
  'actorLink': '/name/nm3849842/',
  'royal': True,
  'siblings': ['Robb Stark', 'Arya Stark', 'Bran Stark', 'Rickon Stark'],
  'marriedEngaged': ['Joffrey Baratheon', 'Tyrion Lannister', 'Ramsay Snow'],
  'guardedBy': ['Lady'],
  'parents': ['Eddard Stark', 'Catelyn Stark']}
```

Some attributes are simple properties and some are a list of related characters. In this document,

- `characterName`, `houseName`, `characterImageThumb`, `characterImageFull`, `characterLink`, `actorName`, `actorLink`, and `royal` are simple attributes.
- `siblings`, `marriedEngaged`, `guardedBy`, and `parents` are relationships.

This dataset is small and we can examine each document. In a very large dataset we would do some random sampling. The first step is to find the top level elements and their types. A relationship set is a list in these documents.

```
In [59]: result = mongo_client.f24_project_got.characters.find({}, {"_id": 0})
result = list(result)

simple_attributes = set()
list_attributes = set()

for r in result:
    for k, v in r.items():
        if type(v) == list:
            list_attributes.add(k)
        else:
            simple_attributes.add(k)
```

```
In [60]: simple_attributes
```

```
Out[60]: {'actorLink',
  'actorName',
  'characterImageFull',
  'characterImageThumb',
  'characterLink',
  'characterName',
  'houseName',
  'kingsguard',
  'nickname',
  'royal'}
```

```
In [61]: list_attributes
```

```
Out[61]: {'abducted',
'abductedBy',
'actors',
'allies',
'guardedBy',
'guardianOf',
'houseName',
'killed',
'killedBy',
'marriedEngaged',
'parentOf',
'parents',
'servedBy',
'serves',
'sibling',
'siblings'}
```

Looking at the attribute names provides confidence that we know the simple and relationship attributes. We want to create list of relationships of the form:

`(source_character, relationship_type, target_character)`. We will temporarily create a table in the relational database and then add to Neo4j.

Note: We will ignore `actors` because we already loaded the information and it is a list of documents."

```
In [62]: fixed_list_attributes = [l for l in list_attributes if l != 'actors']
list_attributes = fixed_list_attributes
list_attributes
```

```
Out[62]: ['parents',
'killed',
'serves',
'guardedBy',
'parentOf',
'marriedEngaged',
'allies',
'killedBy',
'abductedBy',
'siblings',
'servedBy',
'sibling',
'guardianOf',
'abducted',
'houseName']
```

```
In [63]: # TODO Students must implement this function.
#
# Hint: Use an aggregation and unwind operator.
#
def get_relationship(the_collection, relationship_attribute):

    the_aggregation = [
```

```

    {
      "$unwind": f"${relationship_attribute}"
    },
    {
      "$project": {
        "_id": 0,
        "sourceCharacter": "$characterName",
        "relationship_type": f"${relationship_attribute}",
        "targetCharacter": f"${relationship_attribute}"
      }
    }
  ]
}

result = the_collection.aggregate(the_aggregation)
result = list(result)
return result

```

In [64]: # This is a simple test of calling your function with "killed"
My answer is below this test cell.

```

#
result = get_relationship(mongo_client.f24_project_got.characters, "killed")
result_df = pandas.DataFrame(result)
result_df

```

Out[64]:

	sourceCharacter	relationship_type	targetCharacter
0	Aerys II Targaryen	killed	Brandon Stark
1	Aerys II Targaryen	killed	Rickard Stark
2	Alliser Thorne	killed	Jon Snow
3	Amory Lorch	killed	Yoren
4	Arya Stark	killed	Red Keep Stableboy
...
217	Wun Wun	killed	Lyanna Mormont
218	Ygritte	killed	Old Man
219	Ygritte	killed	Guymon
220	Ygritte	killed	Mole's Town Whore
221	Ygritte	killed	Pypar

222 rows × 3 columns

```
# This is a simple test of calling your function with "killed"
# My answer is below this test cell.
#
result = get_relationship(mongo_client.f24_project_got.characters, "killed")
result_df = pandas.DataFrame(result)
result_df
```

	sourceCharacter	relationship_type	targetCharacter
0	Aerys II Targaryen	killed	Brandon Stark
1	Aerys II Targaryen	killed	Rickard Stark
2	Alliser Thorne	killed	Jon Snow
3	Amory Lorch	killed	Yoren
4	Arya Stark	killed	Red Keep Stableboy
...
217	Wun Wun	killed	Lyanna Mormont
218	Ygritte	killed	Old Man
219	Ygritte	killed	Guymon
220	Ygritte	killed	Mole's Town Whore
221	Ygritte	killed	Pypar

222 rows × 3 columns

Killed Relationship Example

The following code will produce and save a table of relationships.

```
In [65]: all_relationships = []

for r in list_attributes:
    result = get_relationship(mongo_client.f24_project_got.characters, r)
    all_relationships.extend(result)

for a in all_relationships:
    if type(a.get("targetCharacter", None)) != str:
        print("Oops", a)

all_relationships_df = pandas.DataFrame(all_relationships)
all_relationships_df
```

Out[65]:

	sourceCharacter	relationship_type	targetCharacter
0	Aegon Targaryen	parents	Elia Martell
1	Aegon Targaryen	parents	Rhaegar Targaryen
2	Alys Karstark	parents	Harald Karstark
3	Arya Stark	parents	Eddard Stark
4	Arya Stark	parents	Catelyn Stark
...
935	Young Benjen Stark	houseName	Stark
936	Young Cersei Lannister	houseName	Lannister
937	Young Lyanna Stark	houseName	Stark
938	Young Ned	houseName	Stark
939	Young Ned Stark	houseName	Stark

940 rows × 3 columns

In [66]:

```
all_relationships_df.to_sql(
    "temp_relationships", schema="f24_project",
    con=default_engine, index=False, if_exists="replace"
)
```

Out[66]: 940

We are not quite done, because remember that we added character IDs when we loaded the original data. We want to use the IDs when adding relationships to the Neo4j data.

In the cell below, write a Neo4j cypher query that returns the `characterName` and `character_id`.

In [67]:

```
# Student TODO
#
neo4j_q = """
    match (c:Character:IMDB) return c.character_id as character_id,
    c.characterName as characterName
    order by c.characterName
    """
```

The following cell is a simple test.

```
In [68]: with GraphDatabase.driver(URI, auth=AUTH) as driver:
    q = neo4j_q + " limit 4"

    records, summary, keys = driver.execute_query(
        q
    )
```

If you do not get an error, the following code cell will produce a result to verify the test. My answer to the test is:

```
for r in records:
    print(dict(r.items()))

{'character_id': 'ch_1', 'characterName': 'Addam Marbrand'}
{'character_id': 'ch_2', 'characterName': 'Aegon Targaryen'}
{'character_id': 'ch_3', 'characterName': 'Aeron Greyjoy'}
{'character_id': 'ch_4', 'characterName': 'Aerys II Targaryen'}
```

Simple Neo4j Test Result

```
In [69]: for r in records:
    print(dict(r.items()))
```

```
{'character_id': 'ch_1', 'characterName': 'Addam Marbrand'}
{'character_id': 'ch_2', 'characterName': 'Aegon Targaryen'}
{'character_id': 'ch_3', 'characterName': 'Aeron Greyjoy'}
{'character_id': 'ch_4', 'characterName': 'Aerys II Targaryen'}
```

We will load this into a temporary table and use a `JOIN` to get a table of relationships.

```
In [70]: with GraphDatabase.driver(URI, auth=AUTH) as driver:
    q = neo4j_q

    records, summary, keys = driver.execute_query(
        q
    )

neo4j_characters = [dict(r.items()) for r in records]
neo4j_characters_df = pandas.DataFrame(neo4j_characters)
```

```
In [71]: neo4j_characters_df.to_sql(
    "neo4j_characters", schema="f24_project",
    con=default_engine, index=False, if_exists="replace"
)
```

```
Out[71]: 389
```

```
In [72]: # TODO Test the insert. My code example result follows.
#
%sql select * from neo4j_characters
```

```
* mysql+pymysql://root:***@localhost?local_infile=1
389 rows affected.
```

Out[72]: character_id	characterName
ch_1	Addam Marbrand
ch_2	Aegon Targaryen
ch_3	Aeron Greyjoy
ch_4	Aerys II Targaryen
ch_5	Akho
ch_6	Alliser Thorne
ch_7	Alton Lannister
ch_8	Alys Karstark
ch_9	Amory Lorch
ch_10	Anguy
ch_11	Archmaester Marwyn
ch_12	Areo Hotah
ch_13	Armeca
ch_14	Arthur
ch_15	Arthur Dayne
ch_16	Arya Stark
ch_17	Baby Sam
ch_18	Balon Greyjoy
ch_19	Baratheon Guard
ch_20	Barristan Selmy
ch_21	Benjen Stark
ch_22	Beric Dondarion
ch_23	Bianca
ch_24	Biter
ch_25	Black Lorren
ch_26	Black Walder Rivers
ch_27	Bobono
ch_28	Bowen Marsh
ch_30	Bran Stark
ch_29	Brandon Stark

character_id	characterName
ch_31	Brea
ch_32	Brienne of Tarth
ch_33	Bronn
ch_34	Brother Ray
ch_35	Brynden Tully
ch_36	Captain of the Archers
ch_37	Catelyn Stark
ch_38	Catspaw Assassin
ch_39	Cersei Lannister
ch_40	Child of the Forest
ch_41	Citadel Maester
ch_42	Colen of Greenpools
ch_43	Craster
ch_44	Daario Naharis
ch_45	Daenerys Targaryen
ch_46	Dagmer Cleftjaw
ch_47	Daisy
ch_48	Davos Seaworth
ch_49	Dickon Tarly
ch_50	Dongo the Giant
ch_51	Donnel Waynwood
ch_52	Dontos Hollard
ch_53	Doran Martell
ch_54	Doreah
ch_55	Dothraki Bloodrider #1
ch_56	Dothraki Bloodrider #2
ch_57	Drennan
ch_58	Drogon
ch_59	Drowned Priest
ch_60	Eddard Stark

character_id	characterName
ch_61	Eddison Tollett
ch_62	Edmure Tully
ch_64	Elia Martell
ch_63	Ellaria Sand
ch_65	Eon Hunter
ch_66	Euron Greyjoy
ch_67	Faceless Man
ch_68	Farlen
ch_69	Gared
ch_70	Gatins
ch_71	Gendry
ch_72	Gerold Hightower
ch_73	Ghost
ch_74	Gilly
ch_75	Goldcloak
ch_76	Goldcloak
ch_77	Goldcloak #1
ch_78	Goldcloak #2
ch_79	Grand Maester Pycelle
ch_80	Great Master #1
ch_81	Great Master #2
ch_82	Great Master #3
ch_83	Great Master #4
ch_84	Great Master #5
ch_85	Great Master #6
ch_86	Great Master #7
ch_87	Greatjon Umber
ch_88	Gregor Clegane
ch_89	Greizhen mo Ullhor
ch_90	Grenn

character_id	characterName
ch_91	Grey Wind
ch_92	Grey Worm
ch_93	Hallyne
ch_94	Handmaid
ch_95	Handmaid
ch_96	Harald Karstark
ch_97	Harry Strickland
ch_98	High Priestess
ch_99	High Septon
ch_100	High Septon
ch_101	High Sparrow
ch_102	Hizdahr zo Loraq
ch_103	Hodor
ch_104	Hoster Tully
ch_105	Hot Pie
ch_106	Howland Reed
ch_107	Hugh of the Vale
ch_108	Illyrio Mopatis
ch_109	Ilyn Payne
ch_110	Irri
ch_111	Izembaro
ch_112	Jacks
ch_113	Jafer Flowers
ch_114	Jaime Lannister
ch_115	Janos Slynt
ch_116	Jaqen H'ghar
ch_117	Jaqen's Disguise
ch_118	Jaremy Rykker
ch_119	Jeor Mormont
ch_120	Jhiqui

character_id	characterName
ch_121	Joffrey Baratheon
ch_122	Jojen Reed
ch_123	Jon Arryn
ch_124	Jon Snow
ch_125	Jonos Bracken
ch_126	Jorah Mormont
ch_127	Jory Cassel
ch_128	Joyeuse Erenford
ch_129	Karl Tanner
ch_130	Karsi
ch_131	Kayla
ch_132	Kegs
ch_133	Kevan Lannister
ch_134	Khal Drogo
ch_135	Khal Moro
ch_136	Khal Rhalko
ch_137	King Joffrey Baratheon Dwarf
ch_138	King Renly Baratheon Dwarf
ch_139	King Robb Stark Dwarf
ch_140	King Stannis Baratheon Dwarf
ch_141	King's Landing Rioter #1
ch_142	King's Landing Rioter #2
ch_143	King's Landing Rioter #3
ch_144	Kinvara
ch_145	Kitty Frey
ch_146	Knight of House Frey
ch_147	Knight of House Lynderly
ch_148	Kovarro
ch_149	Kraznys mo Nakloz
ch_150	Kurleket

character_id	characterName
ch_151	Lady
ch_152	Lady Crane
ch_153	Lancel Lannister
ch_154	Lannister Captain
ch_155	Lannister Captain
ch_156	Lannister Guardsman
ch_157	Lannister Messenger
ch_158	Lannister Scout
ch_159	Lead Dornish Guard
ch_160	Leaf
ch_161	Lem Lemoncloak
ch_162	Leo Lefford
ch_163	Lhara
ch_164	Little Bird
ch_165	Little Bird
ch_166	Little Bird #3
ch_167	Little Bird #4
ch_168	Little Bird #5
ch_169	Little Bird #6
ch_170	Little Bird #7
ch_171	Loboda
ch_172	Locke
ch_173	Lollys Stokeworth
ch_174	Lommy Greenhands
ch_175	Loras Tyrell
ch_176	Lord Galbart Glover
ch_177	Lord Portan
ch_178	Lord Varys
ch_179	Lordsport Dockhand
ch_180	Lothar Frey

character_id	characterName
ch_181	Loyal Night's Watchman #1
ch_182	Loyal Night's Watchman #2
ch_183	Lyanna Mormont
ch_184	Lyanna Stark
ch_185	Lysa Arryn
ch_186	Mace Tyrell
ch_187	Maester Aemon
ch_188	Maester Cressen
ch_189	Maester Luwin
ch_190	Maester Wolkan
ch_191	Mag the Mighty
ch_192	Maggy
ch_193	Mago
ch_194	Male Prostitute
ch_195	Malko
ch_196	Mance Rayder
ch_197	Mandon Moore
ch_198	Manservant
ch_199	Marei
ch_200	Margaery Tyrell
ch_201	Margaery's Handmaiden
ch_202	Marillion
ch_203	Martyn Lannister
ch_204	Masha Heddle
ch_205	Matthos Seaworth
ch_206	Meera Reed
ch_207	Meereen Slave Master
ch_208	Melessa Tarly
ch_209	Melisandre
ch_210	Merchant Captain

character_id	characterName
ch_211	Mero
ch_212	Meryn Trant
ch_213	Mhaegen
ch_214	Mikken
ch_215	Mirelle
ch_216	Mirri Maz Duur
ch_217	Missandei
ch_218	Mord
ch_219	Mossador
ch_220	Musician #1
ch_221	Musician #1
ch_222	Musician #2
ch_223	Musician #2
ch_224	Musician #3
ch_225	Musician #3
ch_226	Musician #4
ch_227	Musician #5
ch_228	Mycah
ch_229	Myranda
ch_230	Myrcella Baratheon
ch_231	Ned Umber
ch_232	Night's Watch Deserter
ch_233	Night's Watch Messenger
ch_234	Night's Watch Officer
ch_235	Night's Watch Officer
ch_236	Night's Watchman
ch_237	Night's Watchman
ch_238	Night's Watchman
ch_239	Night's Watchman #1
ch_240	Night's Watchman #2

character_id	characterName
ch_241	Night's Watchman #2
ch_242	Northman Rioter
ch_243	Nymeria
ch_244	Nymeria Sand
ch_245	Obara Sand
ch_246	Oberyn Martell
ch_247	Old Nan
ch_248	Old Woman Prisoner
ch_249	Olenna Tyrell
ch_250	Olly
ch_251	Olyvar
ch_252	Orell
ch_253	Ornela
ch_254	Osha
ch_255	Othell Yarwyck
ch_256	Othor
ch_257	Pentoshi Servant
ch_258	Petyr Baelish
ch_259	Podrick Payne
ch_260	Polliver
ch_261	Prendahl na Ghezn
ch_262	Pyat Pree
ch_263	Pypar
ch_264	Qhono
ch_265	Qhorin Halfhand
ch_266	Qotho
ch_267	Quaithe
ch_268	Qyburn
ch_269	Rakharo
ch_270	Ramsay Snow

character_id	characterName
ch_271	Randyll Tarly
ch_272	Rast
ch_273	Rattleshirt
ch_274	Razdal mo Eraz
ch_275	Red Keep Stableboy
ch_276	Red Priestess
ch_277	Red Priestess
ch_278	Renly Baratheon
ch_279	Rhaegal
ch_280	Rhaegar Targaryen
ch_281	Rhaego
ch_282	Rhaella Targaryen
ch_283	Rhaenys Targaryen
ch_284	Rickard Karstark
ch_285	Rickard Stark
ch_286	Rickon Stark
ch_287	Robb Stark
ch_288	Robert Baratheon
ch_289	Robett Glover
ch_290	Robin Arryn
ch_291	Rodrik Cassel
ch_292	Roose Bolton
ch_293	Rorge
ch_294	Ros
ch_295	Roslin Frey
ch_296	Royal Steward
ch_297	Ryger Rivers
ch_298	Salladhor Saan
ch_299	Samwell Tarly
ch_300	Sandor Clegane

character_id	characterName
ch_301	Sansa Stark
ch_302	Selyse Baratheon
ch_303	Septa Moelle
ch_304	Septa Mordane
ch_305	Septa Scolera
ch_306	Septa Unella
ch_307	Septon
ch_308	Septon
ch_309	Ser Endrew Tarth
ch_310	Shae
ch_311	Shagga
ch_312	Shaggydog
ch_313	Shireen Baratheon
ch_314	Silk King
ch_315	Smalljon Umber
ch_316	Spice King
ch_317	Stannis Baratheon
ch_318	Stark Bannerman
ch_319	Stark Guard
ch_320	Stark Guard
ch_321	Stark Guard
ch_322	Stark Guard
ch_323	Steelshanks Walton
ch_324	Stevron Frey
ch_325	Stiv
ch_326	Styr
ch_327	Summer
ch_328	Syrio Forel
ch_329	Talisa Maegyr
ch_330	Talla Tarly

character_id	characterName
ch_331	Ternesio Terys
ch_332	The Bear
ch_333	The Night King
ch_334	The Tickler
ch_335	The Waif
ch_336	Thenn Warg
ch_337	Theon Greyjoy
ch_338	Thin Man
ch_339	Thoros of Myr
ch_340	Three-Eyed Raven
ch_341	Timett
ch_342	Tobho Mott
ch_343	Todder
ch_344	Tomard
ch_345	Tommen Baratheon
ch_346	Tormund Giantsbane
ch_347	Trystane Martell
ch_348	Tycho Nestoris
ch_349	Tyene Sand
ch_350	Tyrion Lannister
ch_351	Tywin Lannister
ch_352	Vala
ch_353	Vardis Egen
ch_354	Varly
ch_355	Viserion
ch_356	Viserys Targaryen
ch_357	Walda Bolton
ch_358	Walder Frey
ch_359	Wallen
ch_360	Warlock

character_id	characterName
ch_361	Waymar Royce
ch_362	Wedding Band
ch_363	White Walker
ch_364	White Walker
ch_365	White Walker
ch_366	White Walker #2
ch_367	Wight Wildling Girl
ch_368	Wildling Rioter
ch_369	Will
ch_370	Willem Lannister
ch_371	Willis Wode
ch_372	Wine Merchant
ch_373	Winterfell Shepherd
ch_374	Wun Wun
ch_375	Wyllis
ch_376	Xaro Xhoan Daxos
ch_377	Yara Greyjoy
ch_378	Yezzan zo Qaggaz
ch_379	Ygritte
ch_380	Yohn Royce
ch_381	Yoren
ch_382	Young Benjen Stark
ch_383	Young Cersei Lannister
ch_384	Young Lyanna Stark
ch_385	Young Nan
ch_386	Young Ned
ch_387	Young Ned Stark
ch_388	Young Rodrik Cassel
ch_389	Zanrush

```
[341]: # TODO Test the insert. My code example result follows.
#
%sql select * from neo4j_characters

* mysql+pymysql://root:***@localhost?local_infile=1
389 rows affected.
```

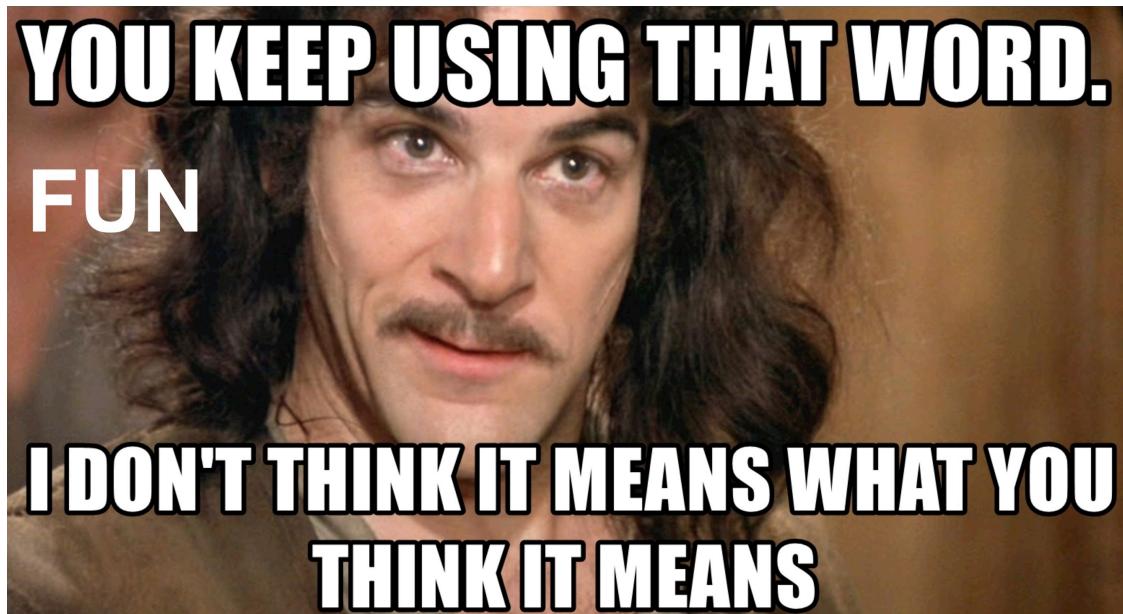
character_id	characterName
ch_1	Addam Marbrand
ch_2	Aegon Targaryen
ch_3	Aeron Greyjoy
ch_4	Aerys II Targaryen
ch_5	Akho
ch_6	Alliser Thorne
ch_7	Alton Lannister
ch_8	Alys Karstark

Neo4j SQL Test Result

You have had as much SQL fun as you can have for one HW. So, I will do the join for you.

OK. So, I used a subquery. Sue me. I used the `min()` function because we accidentally loaded some duplicates.

Dirty data in data engineering is part of the "fun."



Data Engineering is Fun!

```
In [73]: %%sql

select
    (select min(character_id) from neo4j_characters where characterName=temp_relation
     as source_character_id,
```

```
sourceCharacter,
relationship_type,
(select min(character_id) from neo4j_characters where characterName=temp_relationship_name
as target_character_id,
targetCharacter
from
temp_relationships;
```

```
* mysql+pymysql://root:***@localhost?local_infile=1
940 rows affected.
```

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_2	Aegon Targaryen	parents	ch_64	Elia Martell
ch_2	Aegon Targaryen	parents	ch_280	Rhaegar Targaryen
ch_8	Alys Karstark	parents	ch_96	Harald Karstark
ch_16	Arya Stark	parents	ch_60	Eddard Stark
ch_16	Arya Stark	parents	ch_37	Catelyn Stark
ch_17	Baby Sam	parents	ch_299	Samwell Tarly
ch_17	Baby Sam	parents	ch_74	Oliver
ch_21	Benjen Stark	parents	ch_285	Rickard Stark
ch_26	Black Walder Rivers	parents	ch_358	Walder Frey
ch_29	Brandon Stark	parents	ch_285	Rickard Stark
ch_30	Bran Stark	parents	ch_60	Eddard Stark
ch_30	Bran Stark	parents	ch_37	Catelyn Stark
ch_37	Catelyn Stark	parents	ch_104	Hoster Tully
ch_39	Cersei Lannister	parents	ch_351	Tywin Lannister
ch_45	Daenerys Targaryen	parents	ch_4	Aerys Targaryen
ch_45	Daenerys Targaryen	parents	ch_282	Rhaenys Targaryen
ch_49	Dickon Tarly	parents	ch_271	Randall Tarly
ch_49	Dickon Tarly	parents	ch_208	Melessa Tarly
ch_60	Eddard Stark	parents	ch_285	Rickard Stark
ch_71	Gendry	parents	ch_288	Robert Baratheon
ch_74	Gilly	parents	ch_43	Craig
ch_96	Harald Karstark	parents	ch_284	Rickard Karstark
ch_114	Jaime Lannister	parents	ch_351	Tywin Lannister
ch_121	Joffrey Baratheon	parents	ch_288	Robert Baratheon
ch_121	Joffrey Baratheon	parents	ch_39	Cersei Lannister
ch_121	Joffrey Baratheon	parents	ch_114	Jaime Lannister

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_122	Jojen Reed	parents	ch_106	Howland Reed
ch_124	Jon Snow	parents	ch_280	Rhaegar Targaryen
ch_124	Jon Snow	parents	ch_184	Lyanna Stark
ch_126	Jorah Mormont	parents	ch_119	Jeor Mormont
ch_153	Lancel Lannister	parents	ch_133	Kevan Lannister
ch_175	Loras Tyrell	parents	ch_186	Mace Tyrell
ch_180	Lothar Frey	parents	ch_358	Walder Frey
ch_184	Lyanna Stark	parents	ch_285	Rickard Stark
ch_185	Lysa Arryn	parents	ch_104	Hoster Tully
ch_200	Margaery Tyrell	parents	ch_186	Mace Tyrell
ch_203	Martyn Lannister	parents	ch_133	Kevan Lannister
ch_205	Matthos Seaworth	parents	ch_48	Davos Seaworth
ch_206	Meera Reed	parents	ch_106	Howland Reed
ch_230	Myrcella Baratheon	parents	ch_288	Robert Baratheon
ch_230	Myrcella Baratheon	parents	ch_39	Cersei Lannister
ch_230	Myrcella Baratheon	parents	ch_114	Jaime Lannister
ch_244	Nymeria Sand	parents	ch_246	Oberyn Martell
ch_245	Obara Sand	parents	ch_246	Oberyn Martell
ch_270	Ramsay Snow	parents	ch_292	Roose Bolton
ch_280	Rhaegar Targaryen	parents	ch_282	Rhaegar Targaryen
ch_280	Rhaegar Targaryen	parents	ch_4	Aerys Targaryen
ch_281	Rhaego	parents	ch_134	Khal Drogo
ch_281	Rhaego	parents	ch_45	Daenerys Targaryen
ch_283	Rhaenys Targaryen	parents	ch_64	Elia Martell
ch_283	Rhaenys Targaryen	parents	ch_280	Rhaegar Targaryen

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_286	Rickon Stark	parents	ch_60	Eddard Stark
ch_286	Rickon Stark	parents	ch_37	Catelyn Stark
ch_287	Robb Stark	parents	ch_60	Eddard Stark
ch_287	Robb Stark	parents	ch_37	Catelyn Stark
ch_290	Robin Arryn	parents	ch_123	Jon Arryn
ch_290	Robin Arryn	parents	ch_185	Lysa Arryn
ch_295	Roslin Frey	parents	ch_358	Walder Frey
ch_297	Ryger Rivers	parents	ch_358	Walder Frey
ch_299	Samwell Tarly	parents	ch_271	Randall Tarly
ch_299	Samwell Tarly	parents	ch_208	Melessa Tarly
ch_301	Sansa Stark	parents	ch_60	Eddard Stark
ch_301	Sansa Stark	parents	ch_37	Catelyn Stark
ch_313	Shireen Baratheon	parents	ch_317	Stannis Baratheon
ch_313	Shireen Baratheon	parents	ch_302	Seahar Baratheon
ch_315	Smalljon Umber	parents	ch_87	Greatjon Umber
ch_330	Talla Tarly	parents	ch_271	Randall Tarly
ch_330	Talla Tarly	parents	ch_208	Melessa Tarly
ch_337	Theon Greyjoy	parents	ch_18	Balon Greyjoy
ch_345	Tommen Baratheon	parents	ch_288	Robert Baratheon
ch_345	Tommen Baratheon	parents	ch_39	Cersei Lannister
ch_345	Tommen Baratheon	parents	ch_114	Jaime Lannister
ch_347	Trystane Martell	parents	ch_53	Doran Martell
ch_349	Tyene Sand	parents	ch_246	Oberyn Martell
ch_349	Tyene Sand	parents	ch_63	Ellaria Sand
ch_350	Tyrion Lannister	parents	ch_351	Tywin Lannister
ch_356	Viserys Targaryen	parents	ch_282	Rhaegar Targaryen
ch_356	Viserys Targaryen	parents	ch_4	Aerys Targaryen

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_361	Waymar Royce	parents	ch_380	Yohn Royce
ch_370	Willem Lannister	parents	ch_133	Kevan Lannister
ch_377	Yara Greyjoy	parents	ch_18	Balon Greyjoy
ch_4	Aerys II Targaryen	killed	ch_29	Brandon Stark
ch_4	Aerys II Targaryen	killed	ch_285	Rickard Stark
ch_6	Alliser Thorne	killed	ch_124	Jon Snow
ch_9	Amory Lorch	killed	ch_381	Yoren
ch_16	Arya Stark	killed	ch_275	Red Keep Stable
ch_16	Arya Stark	killed	None	Frey Soldier
ch_16	Arya Stark	killed	ch_260	Pollum
ch_16	Arya Stark	killed	ch_293	Ramsay
ch_16	Arya Stark	killed	None	Gendry
ch_16	Arya Stark	killed	ch_212	Meryn Trant
ch_16	Arya Stark	killed	ch_335	The Viper
ch_16	Arya Stark	killed	ch_26	Black Walder Rivers
ch_16	Arya Stark	killed	ch_180	Lothar Baratheon
ch_16	Arya Stark	killed	ch_358	Walder Frey
ch_16	Arya Stark	killed	ch_258	Petyr Baelish
ch_16	Arya Stark	killed	ch_333	The Night King
ch_16	Arya Stark	killed	ch_363	White Walker
ch_16	Arya Stark	killed	ch_355	Viseer
ch_26	Black Walder Rivers	killed	ch_37	Catelyn Stark
ch_28	Bowen Marsh	killed	ch_124	Jon Snow
ch_32	Brienne of Tarth	killed	None	Soldier 1
ch_32	Brienne of Tarth	killed	ch_317	Stannis Baratheon
ch_32	Brienne of Tarth	killed	None	Bolton Officer
ch_33	Bronn	killed	ch_353	Vardis E

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_33	Bronn	killed	ch_205	Matt Seaworth
ch_33	Bronn	killed	ch_159	Lead Donal Guise
ch_37	Catelyn Stark	killed	ch_128	Joyce Erenfesher
ch_39	Cersei Lannister	killed	ch_153	Lancel Lannister
ch_39	Cersei Lannister	killed	ch_101	High Sparrow
ch_39	Cersei Lannister	killed	ch_175	Loras Tyrell
ch_39	Cersei Lannister	killed	ch_186	Mace Tyrell
ch_39	Cersei Lannister	killed	ch_200	Margaery Tyrell
ch_39	Cersei Lannister	killed	ch_133	Kevan Lannister
ch_39	Cersei Lannister	killed	ch_349	Tyene Sand
ch_44	Daario Naharis	killed	ch_211	Mystifer
ch_44	Daario Naharis	killed	ch_261	Prendah Ghys
ch_44	Daario Naharis	killed	None	Oznak zo Farkas
ch_44	Daario Naharis	killed	ch_219	Mossador
ch_44	Daario Naharis	killed	None	Igor
ch_44	Daario Naharis	killed	ch_5	Arya Stark
ch_45	Daenerys Targaryen	killed	ch_134	Khal Drogo
ch_45	Daenerys Targaryen	killed	ch_216	Mirri Maz Duur
ch_45	Daenerys Targaryen	killed	ch_54	Doreon
ch_45	Daenerys Targaryen	killed	ch_376	Xaro Xhoan Daxos
ch_45	Daenerys Targaryen	killed	ch_136	Khal Rhagar
ch_45	Daenerys Targaryen	killed	None	Khal Brox
ch_45	Daenerys Targaryen	killed	None	Khal Qaracot
ch_45	Daenerys Targaryen	killed	None	Khal Forqin

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_45	Daenerys Targaryen	killed	ch_135	Khal M
ch_45	Daenerys Targaryen	killed	ch_55	Dothr Bloodrider
ch_45	Daenerys Targaryen	killed	ch_56	Dothr Bloodrider
ch_45	Daenerys Targaryen	killed	ch_271	Randyll T
ch_45	Daenerys Targaryen	killed	ch_49	Dickon T
ch_45	Daenerys Targaryen	killed	None	Elea
ch_45	Daenerys Targaryen	killed	None	Elean Daugl
ch_45	Daenerys Targaryen	killed	ch_178	Lord Va
ch_54	Doreah	killed	ch_110	
ch_58	Dragon	killed	ch_262	Pyat F
ch_58	Dragon	killed	ch_149	Kraznys Nal
ch_58	Dragon	killed	None	Z
ch_60	Eddard Stark	killed	ch_15	Arthur Da
ch_60	Eddard Stark	killed	ch_369	
ch_60	Eddard Stark	killed	ch_151	L
ch_60	Eddard Stark	killed	ch_72	Ge Highto
ch_63	Ellaria Sand	killed	ch_230	Myrc Barath
ch_63	Ellaria Sand	killed	ch_53	Doran Ma
ch_66	Euron Greyjoy	killed	ch_18	Balon Gre
ch_66	Euron Greyjoy	killed	ch_245	Obara S
ch_66	Euron Greyjoy	killed	ch_244	Nymeria S
ch_66	Euron Greyjoy	killed	ch_279	Rhae
ch_71	Gendry	killed	None	Kevin El
ch_71	Gendry	killed	None	Laure Spellr

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_73	Ghost	killed	ch_272	F
ch_88	Gregor Clegane	killed	ch_64	Elia Ma
ch_88	Gregor Clegane	killed	ch_283	Rhae Targar
ch_88	Gregor Clegane	killed	ch_2	Aeg Targar
ch_88	Gregor Clegane	killed	ch_107	Hugh of
ch_88	Gregor Clegane	killed	ch_246	Oberyn Ma
ch_88	Gregor Clegane	killed	None	King's Lanc Boa
ch_88	Gregor Clegane	killed	None	Faith Milit
ch_88	Gregor Clegane	killed	ch_217	Missar
ch_88	Gregor Clegane	killed	ch_268	Qyb
ch_90	Grenn	killed	ch_191	Mag the Mic
ch_91	Grey Wind	killed	None	Ren
ch_92	Grey Worm	killed	None	Beli Paenym
ch_92	Grey Worm	killed	ch_274	Razdal mo E
ch_92	Grey Worm	killed	ch_97	Harry Strickl
ch_103	Hodor	killed	ch_172	Lo
ch_106	Howland Reed	killed	ch_15	Arthur Da
ch_109	Ilyn Payne	killed	ch_60	Eddard S
ch_114	Jaime Lannister	killed	ch_4	Aer Targar
ch_114	Jaime Lannister	killed	ch_127	Jory Ca
ch_114	Jaime Lannister	killed	ch_7	Alton Lanni
ch_114	Jaime Lannister	killed	None	Torrhen Kars
ch_114	Jaime Lannister	killed	ch_249	Olenna Ty
ch_114	Jaime Lannister	killed	ch_66	Euron Grey
ch_115	Janos Slynt	killed	None	Ba
ch_116	Jaqen H'ghar	killed	ch_334	The Tic
ch_116	Jaqen H'ghar	killed	ch_9	Amory Lo

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_116	Jaqen H'ghar	killed	None	Despondent Man
ch_121	Joffrey Baratheon	killed	ch_294	
ch_124	Jon Snow	killed	ch_256	Ot
ch_124	Jon Snow	killed	ch_265	Qhorin Halfhand
ch_124	Jon Snow	killed	ch_252	C
ch_124	Jon Snow	killed	ch_129	Karl Tanner
ch_124	Jon Snow	killed	ch_326	
ch_124	Jon Snow	killed	ch_196	Mance Rayder
ch_124	Jon Snow	killed	ch_115	Janos Slynt
ch_124	Jon Snow	killed	ch_363	White Walker
ch_124	Jon Snow	killed	ch_6	Alliser Thorne
ch_124	Jon Snow	killed	ch_255	Othell Yarwynd
ch_124	Jon Snow	killed	ch_28	Bowen Maes
ch_124	Jon Snow	killed	ch_250	
ch_124	Jon Snow	killed	ch_184	Lyanna Stark
ch_124	Jon Snow	killed	ch_45	Daenerys Targaryen
ch_126	Jorah Mormont	killed	ch_266	Qo
ch_126	Jorah Mormont	killed	None	Norvosha Figgle
ch_126	Jorah Mormont	killed	None	Meereen Champ
ch_129	Karl Tanner	killed	ch_43	Craig
ch_134	Khal Drogo	killed	ch_356	Viseer Targaryen
ch_134	Khal Drogo	killed	ch_193	Ma
ch_161	Lem Lemoncloak	killed	ch_34	Brother
ch_180	Lothar Frey	killed	ch_329	Talisa Mae
ch_183	Lyanna Mormont	killed	ch_374	Wun W
ch_185	Lysa Arryn	killed	ch_123	Jon Arryn
ch_188	Maester Cressen	killed	ch_188	Maester Cres

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_191	Mag the Mighty	killed	ch_90	Gr
ch_191	Mag the Mighty	killed	None	Donnel
ch_191	Mag the Mighty	killed	None	Coc
ch_206	Meera Reed	killed	ch_122	Jojen R
ch_206	Meera Reed	killed	ch_363	White Wa
ch_209	Melisandre	killed	ch_278	Renly Barath
ch_209	Melisandre	killed	None	Axell Flo
ch_209	Melisandre	killed	ch_196	Mance Ray
ch_209	Melisandre	killed	ch_313	Shir
ch_212	Meryn Trant	killed	ch_328	Syrio Fe
ch_216	Mirri Maz Duur	killed	ch_281	Rhae
ch_219	Mossador	killed	None	Son of Ha
ch_245	Obara Sand	killed	ch_210	Merch Cap
ch_245	Obara Sand	killed	ch_347	Trystane Ma
ch_249	Olenna Tyrell	killed	ch_121	Jof Barath
ch_250	Olly	killed	ch_379	Ygr
ch_250	Olly	killed	ch_124	Jon Sr
ch_254	Osha	killed	ch_57	Dren
ch_254	Osha	killed	ch_189	Maester Lu
ch_255	Othell Yarwyck	killed	ch_124	Jon Sr
ch_258	Petyr Baelish	killed	ch_121	Jof Barath
ch_258	Petyr Baelish	killed	ch_52	Dontos Holl
ch_258	Petyr Baelish	killed	ch_185	Lysa Au
ch_259	Podrick Payne	killed	ch_197	Mandon Mc
ch_259	Podrick Payne	killed	None	Bolton Sol
ch_260	Polliver	killed	ch_174	Lom Greenha
ch_262	Pyat Pree	killed	ch_316	Spice K

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_262	Pyat Pree	killed	ch_314	Silk Kiln
ch_270	Ramsay Snow	killed	None	Master Torturer
ch_270	Ramsay Snow	killed	None	Medger Cervi
ch_270	Ramsay Snow	killed	None	Lady Cervi
ch_270	Ramsay Snow	killed	None	Unidentified Cervi
ch_270	Ramsay Snow	killed	None	Old Woman
ch_270	Ramsay Snow	killed	ch_292	Roose Bolton
ch_270	Ramsay Snow	killed	ch_254	Olly
ch_270	Ramsay Snow	killed	ch_286	Rickon Stark
ch_270	Ramsay Snow	killed	ch_374	Wun Wun
ch_272	Rast	killed	ch_119	Jeor Mormont
ch_279	Rhaegal	killed	ch_262	Pyat Pree
ch_279	Rhaegal	killed	ch_80	Great Master
ch_284	Rickard Karstark	killed	ch_203	Maester Lannister
ch_284	Rickard Karstark	killed	ch_370	Willem Lannister
ch_287	Robb Stark	killed	ch_359	Walla
ch_287	Robb Stark	killed	ch_284	Rickard Karstark
ch_288	Robert Baratheon	killed	ch_280	Rhaegar Targaryen
ch_292	Roose Bolton	killed	ch_287	Robb Stark
ch_299	Samwell Tarly	killed	ch_363	White Walker
ch_299	Samwell Tarly	killed	ch_336	Thenn Wolf
ch_300	Sandor Clegane	killed	ch_228	Myrcella Baratheon
ch_300	Sandor Clegane	killed	None	Kings Landing Rioter
ch_300	Sandor Clegane	killed	None	Kings Landing Rioter
ch_300	Sandor Clegane	killed	None	Kings Landing Rioter
ch_300	Sandor Clegane	killed	ch_22	Bronn Dondarrion
ch_300	Sandor Clegane	killed	None	Frey Soldier

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_300	Sandor Clegane	killed	None	Loy
ch_300	Sandor Clegane	killed	None	Dying M
ch_300	Sandor Clegane	killed	ch_24	B
ch_300	Sandor Clegane	killed	None	St
ch_300	Sandor Clegane	killed	None	Rid
ch_300	Sandor Clegane	killed	ch_70	Ga
ch_300	Sandor Clegane	killed	None	Mor
ch_300	Sandor Clegane	killed	ch_161	L
				Lemoncl
ch_300	Sandor Clegane	killed	ch_88	Gregor Cleg
ch_300	Sandor Clegane	killed	ch_300	Sandor Cleg
ch_302	Selyse Baratheon	killed	ch_302	Se
				Barath
ch_315	Smalljon Umber	killed	ch_312	Shaggy
ch_317	Stannis Baratheon	killed	None	G
ch_317	Stannis Baratheon	killed	None	Simp
ch_326	Styr	killed	None	Olly's Mot
ch_327	Summer	killed	ch_38	Catsp
				Assa
ch_333	The Night King	killed	ch_340	Three-E
				Ra
ch_333	The Night King	killed	ch_355	Vise
ch_333	The Night King	killed	ch_231	Ned Um
ch_333	The Night King	killed	ch_337	Theon Grey
ch_334	The Tickler	killed	None	Tortu
				Prisc
ch_335	The Waif	killed	ch_152	Lady Cr
ch_337	Theon Greyjoy	killed	ch_325	
ch_337	Theon Greyjoy	killed	ch_291	Rodrik Ca
ch_337	Theon Greyjoy	killed	ch_229	Myra
ch_337	Theon Greyjoy	killed	None	Bolton Sol
ch_337	Theon Greyjoy	killed	None	Har

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_345	Tommen Baratheon	killed	ch_345	Tommen Baratheon
ch_346	Tormund Giantsbane	killed	ch_273	Rattleshirt
ch_346	Tormund Giantsbane	killed	ch_315	Smalljon Umber
ch_349	Tyene Sand	killed	ch_12	Areo Hotah
ch_349	Tyene Sand	killed	None	Maeve Caleen
ch_350	Tyrion Lannister	killed	ch_310	Sandor Clegane
ch_350	Tyrion Lannister	killed	ch_351	Tywin Lannister
ch_355	Viserion	killed	ch_262	Pyat Pree
ch_355	Viserion	killed	ch_80	Great Master of the Citadel
ch_363	White Walker	killed	ch_171	Lobster
ch_374	Wun Wun	killed	ch_183	Lya Mormont
ch_379	Ygritte	killed	None	Old Nan
ch_379	Ygritte	killed	None	Gwynne
ch_379	Ygritte	killed	None	Mole's Tongue
ch_379	Ygritte	killed	ch_263	Pycelle
ch_12	Areo Hotah	serves	ch_53	Doran Martell
ch_15	Arthur Dayne	serves	ch_4	Aeryn Targaryen
ch_20	Barristan Selmy	serves	ch_45	Daenerys Targaryen
ch_32	Brienne of Tarth	serves	ch_278	Renly Baratheon
ch_32	Brienne of Tarth	serves	ch_37	Catelyn Stark
ch_32	Brienne of Tarth	serves	ch_301	Sansa Stark
ch_32	Brienne of Tarth	serves	ch_30	Bran Stark
ch_44	Daario Naharis	serves	ch_45	Daenerys Targaryen
ch_48	Davos Seaworth	serves	ch_317	Stannis Baratheon
ch_48	Davos Seaworth	serves	ch_124	Jon Snow

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_88	Gregor Clegane	serves	ch_351	Tywin Lannister
ch_88	Gregor Clegane	serves	ch_39	Cersei Lannister
ch_92	Grey Worm	serves	ch_45	Daenerys Targaryen
ch_126	Jorah Mormont	serves	ch_45	Daenerys Targaryen
ch_127	Jory Cassel	serves	ch_60	Eddard Stark
ch_217	Missandei	serves	ch_45	Daenerys Targaryen
ch_259	Podrick Payne	serves	ch_350	Tyrion Lannister
ch_259	Podrick Payne	serves	ch_32	Brienne of Tarth
ch_259	Podrick Payne	serves	ch_30	Bran Stark
ch_268	Qyburn	serves	ch_39	Cersei Lannister
ch_291	Rodrik Cassel	serves	ch_60	Eddard Stark
ch_350	Tyrion Lannister	serves	ch_45	Daenerys Targaryen
ch_16	Arya Stark	guardedBy	ch_243	Nym
ch_30	Bran Stark	guardedBy	ch_327	Summer
ch_45	Daenerys Targaryen	guardedBy	ch_58	Drogon
ch_45	Daenerys Targaryen	guardedBy	ch_279	Rhaegal
ch_45	Daenerys Targaryen	guardedBy	ch_355	Viserion
ch_60	Eddard Stark	guardedBy	ch_123	Jon Arryn
ch_124	Jon Snow	guardedBy	ch_60	Eddard Stark
ch_124	Jon Snow	guardedBy	ch_73	Gilly
ch_286	Rickon Stark	guardedBy	ch_312	Shaggydog
ch_287	Robb Stark	guardedBy	ch_91	Grey Wind
ch_288	Robert Baratheon	guardedBy	ch_123	Jon Arryn
ch_301	Sansa Stark	guardedBy	ch_151	Lancel
ch_4	Aerys II Targaryen	parentOf	ch_45	Daenerys Targaryen

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_4	Aerys II Targaryen	parentOf	ch_280	Rhaegar Targaryen
ch_4	Aerys II Targaryen	parentOf	ch_356	Viseer Tyrell
ch_18	Balon Greyjoy	parentOf	ch_377	Yara Greyjoy
ch_18	Balon Greyjoy	parentOf	ch_337	Theon Greyjoy
ch_37	Catelyn Stark	parentOf	ch_287	Robb Stark
ch_37	Catelyn Stark	parentOf	ch_301	Sansa Stark
ch_37	Catelyn Stark	parentOf	ch_16	Arya Stark
ch_37	Catelyn Stark	parentOf	ch_30	Bran Stark
ch_37	Catelyn Stark	parentOf	ch_286	Rickon Stark
ch_39	Cersei Lannister	parentOf	ch_121	Joffrey Baratheon
ch_39	Cersei Lannister	parentOf	ch_230	Myrcella Baratheon
ch_39	Cersei Lannister	parentOf	ch_345	Tommy Baratheon
ch_45	Daenerys Targaryen	parentOf	ch_281	Rhaegal
ch_48	Davos Seaworth	parentOf	ch_205	Matt Seaworth
ch_53	Doran Martell	parentOf	ch_347	Trystane Martell
ch_60	Eddard Stark	parentOf	ch_287	Robb Stark
ch_60	Eddard Stark	parentOf	ch_301	Sansa Stark
ch_60	Eddard Stark	parentOf	ch_16	Arya Stark
ch_60	Eddard Stark	parentOf	ch_30	Bran Stark
ch_60	Eddard Stark	parentOf	ch_286	Rickon Stark
ch_63	Ellaria Sand	parentOf	ch_349	Tyene Sand
ch_64	Elia Martell	parentOf	ch_283	Rhaelle Targaryen
ch_64	Elia Martell	parentOf	ch_2	Aegon Targaryen
ch_74	Gilly	parentOf	ch_17	Baby Sansa
ch_87	Greatjon Umber	parentOf	ch_315	Smalljon Umber

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_96	Harald Karstark	parentOf	ch_8	Alys Karstark
ch_106	Howland Reed	parentOf	ch_122	Jojen Reed
ch_106	Howland Reed	parentOf	ch_206	Meera Reed
ch_114	Jaime Lannister	parentOf	ch_121	Joffrey Baratheon
ch_114	Jaime Lannister	parentOf	ch_230	Myrcella Baratheon
ch_114	Jaime Lannister	parentOf	ch_345	Tommy Baratheon
ch_119	Jeor Mormont	parentOf	ch_126	Jorah Mormont
ch_130	Karsi	parentOf	None	John Baratheon
ch_130	Karsi	parentOf	None	Wylis Baratheon
ch_133	Kevan Lannister	parentOf	ch_153	Lancel Lannister
ch_133	Kevan Lannister	parentOf	ch_203	Marella Lannister
ch_133	Kevan Lannister	parentOf	ch_370	Willem Lannister
ch_134	Khal Drogo	parentOf	ch_281	Rhaegar Targaryen
ch_184	Lyanna Stark	parentOf	ch_124	Jon Snow
ch_186	Mace Tyrell	parentOf	ch_200	Margaery Tyrell
ch_186	Mace Tyrell	parentOf	ch_175	Loras Tyrell
ch_208	Melessa Tarly	parentOf	ch_49	Dickon Tarly
ch_208	Melessa Tarly	parentOf	ch_299	Samwell Tarly
ch_208	Melessa Tarly	parentOf	ch_330	Talla Tarly
ch_246	Oberyn Martell	parentOf	ch_245	Obara Sand
ch_246	Oberyn Martell	parentOf	ch_244	Nymeria Sand
ch_246	Oberyn Martell	parentOf	ch_349	Tyene Sand
ch_249	Olenna Tyrell	parentOf	ch_186	Mace Tyrell
ch_271	Randall Tarly	parentOf	ch_49	Dickon Tarly
ch_271	Randall Tarly	parentOf	ch_299	Samwell Tarly
ch_271	Randall Tarly	parentOf	ch_330	Talla Tarly
ch_280	Rhaegar Targaryen	parentOf	ch_124	Jon Snow

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_280	Rhaegar Targaryen	parentOf	ch_283	Rhaenys Targaryen
ch_280	Rhaegar Targaryen	parentOf	ch_2	Aegon Targaryen
ch_282	Rhaella Targaryen	parentOf	ch_45	Daenerys Targaryen
ch_282	Rhaella Targaryen	parentOf	ch_280	Rhaenys Targaryen
ch_282	Rhaella Targaryen	parentOf	ch_356	Viseer Tyrell
ch_284	Rickard Karstark	parentOf	ch_96	Harald Karstark
ch_285	Rickard Stark	parentOf	ch_29	Brandon Stark
ch_285	Rickard Stark	parentOf	ch_21	Benjen Stark
ch_285	Rickard Stark	parentOf	ch_60	Eddard Stark
ch_285	Rickard Stark	parentOf	ch_184	Lyanna Stark
ch_288	Robert Baratheon	parentOf	ch_121	Joffrey Baratheon
ch_288	Robert Baratheon	parentOf	ch_230	Myrcella Baratheon
ch_288	Robert Baratheon	parentOf	ch_345	Tommy Baratheon
ch_292	Roose Bolton	parentOf	ch_270	Ramsay Bolton
ch_299	Samwell Tarly	parentOf	ch_17	Baby Sam
ch_302	Selyse Baratheon	parentOf	ch_313	Shireen Baratheon
ch_317	Stannis Baratheon	parentOf	ch_313	Shireen Baratheon
ch_351	Tywin Lannister	parentOf	ch_114	Jaime Lannister
ch_351	Tywin Lannister	parentOf	ch_39	Cersei Lannister
ch_351	Tywin Lannister	parentOf	ch_350	Tyrion Lannister
ch_358	Walder Frey	parentOf	ch_26	Black Walder Frey
ch_358	Walder Frey	parentOf	ch_180	Lothar Frey
ch_358	Walder Frey	parentOf	ch_295	Roslin Frey
ch_358	Walder Frey	parentOf	ch_297	Ryger Frey

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_380	Yohn Royce	parentOf	ch_361	Waymar Royce
ch_4	Aerys II Targaryen	marriedEngaged	ch_282	Rhaegar Targaryen
ch_33	Bronn	marriedEngaged	ch_173	Lancel Stokeworth
ch_37	Catelyn Stark	marriedEngaged	ch_60	Eddard Stark
ch_37	Catelyn Stark	marriedEngaged	ch_29	Brandon Stark
ch_39	Cersei Lannister	marriedEngaged	ch_288	Robert Baratheon
ch_45	Daenerys Targaryen	marriedEngaged	ch_134	Khal Drogo
ch_60	Eddard Stark	marriedEngaged	ch_37	Catelyn Stark
ch_62	Edmure Tully	marriedEngaged	ch_295	Roslin Frey
ch_63	Ellaria Sand	marriedEngaged	ch_246	Oberyn Martell
ch_64	Elia Martell	marriedEngaged	ch_280	Rhaegar Targaryen
ch_74	Gilly	marriedEngaged	ch_299	Samwell Tarly
ch_121	Joffrey Baratheon	marriedEngaged	ch_301	Sansa Stark
ch_121	Joffrey Baratheon	marriedEngaged	ch_200	Margaery Tyrell
ch_124	Jon Snow	marriedEngaged	ch_379	Ygritte
ch_128	Joyeuse Erenford	marriedEngaged	ch_358	Walder Frey
ch_134	Khal Drogo	marriedEngaged	ch_45	Daenerys Targaryen
ch_145	Kitty Frey	marriedEngaged	ch_358	Walder Frey
ch_173	Lollys Stokeworth	marriedEngaged	ch_33	Bronn
ch_184	Lyanna Stark	marriedEngaged	ch_288	Robert Baratheon
ch_184	Lyanna Stark	marriedEngaged	ch_280	Rhaegar Targaryen
ch_185	Lysa Arryn	marriedEngaged	ch_258	Petyr Baelish
ch_200	Margaery Tyrell	marriedEngaged	ch_278	Renly Baratheon
ch_200	Margaery Tyrell	marriedEngaged	ch_121	Joffrey Baratheon

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_200	Margaery Tyrell	marriedEngaged	ch_345	Tommen Baratheon
ch_208	Melessa Tarly	marriedEngaged	ch_271	Randyll Tarly
ch_230	Myrcella Baratheon	marriedEngaged	ch_347	Trystane Martell
ch_246	Oberyn Martell	marriedEngaged	ch_63	Ellaria Sand
ch_258	Petyr Baelish	marriedEngaged	ch_185	Lysa Arryn
ch_270	Ramsay Snow	marriedEngaged	ch_301	Sansa Stark
ch_271	Randyll Tarly	marriedEngaged	ch_208	Melessa Tarly
ch_278	Renly Baratheon	marriedEngaged	ch_200	Margaery Tyrell
ch_280	Rhaegar Targaryen	marriedEngaged	ch_64	Elia Martell
ch_280	Rhaegar Targaryen	marriedEngaged	ch_184	Lyanna Stark
ch_282	Rhaella Targaryen	marriedEngaged	ch_4	Aerys Targaryen
ch_287	Robb Stark	marriedEngaged	ch_295	Roslin Frey
ch_287	Robb Stark	marriedEngaged	ch_329	Talisa Maegyr
ch_288	Robert Baratheon	marriedEngaged	ch_184	Lyanna Stark
ch_288	Robert Baratheon	marriedEngaged	ch_39	Cersei Lannister
ch_292	Roose Bolton	marriedEngaged	ch_357	Walda Bolton
ch_295	Roslin Frey	marriedEngaged	ch_287	Robb Stark
ch_295	Roslin Frey	marriedEngaged	ch_62	Edmure Tully
ch_299	Samwell Tarly	marriedEngaged	ch_74	Cersei Lannister
ch_301	Sansa Stark	marriedEngaged	ch_121	Joffrey Baratheon
ch_301	Sansa Stark	marriedEngaged	ch_350	Tyrion Lannister
ch_301	Sansa Stark	marriedEngaged	ch_270	Ramsay Stark
ch_302	Selyse Baratheon	marriedEngaged	ch_317	Stannis Baratheon
ch_317	Stannis Baratheon	marriedEngaged	ch_302	Seahra Baratheon
ch_329	Talisa Maegyr	marriedEngaged	ch_287	Robb Stark

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_345	Tommen Baratheon	marriedEngaged	ch_200	Margaery Tyrell
ch_347	Trystane Martell	marriedEngaged	ch_230	Myrcella Baratheon
ch_350	Tyrion Lannister	marriedEngaged	ch_301	Sansa Stark
ch_357	Walda Bolton	marriedEngaged	ch_292	Roose Bolton
ch_358	Walder Frey	marriedEngaged	ch_128	Joyce Erenford
ch_358	Walder Frey	marriedEngaged	ch_145	Kitty Redwyne
ch_379	Ygritte	marriedEngaged	ch_124	Jon Snow
ch_60	Eddard Stark	allies	ch_106	Howland Reed
ch_60	Eddard Stark	allies	ch_288	Robert Baratheon
ch_106	Howland Reed	allies	ch_60	Eddard Stark
ch_123	Jon Arryn	allies	ch_288	Robert Baratheon
ch_288	Robert Baratheon	allies	ch_123	Jon Arryn
ch_288	Robert Baratheon	allies	ch_60	Eddard Stark
ch_288	Robert Baratheon	allies	ch_351	Tywin Lannister
ch_351	Tywin Lannister	allies	ch_288	Robert Baratheon
ch_2	Aegon Targaryen	killedBy	ch_88	Gregor Clegane
ch_4	Aerys II Targaryen	killedBy	ch_114	Jaime Lannister
ch_5	Akho	killedBy	ch_44	Daario Naharis
ch_6	Alliser Thorne	killedBy	ch_124	Jon Snow
ch_7	Alton Lannister	killedBy	ch_114	Jaime Lannister
ch_9	Amory Lorch	killedBy	ch_116	Jaqen H'ghar
ch_12	Areo Hotah	killedBy	ch_349	Tyene Sand
ch_15	Arthur Dayne	killedBy	ch_106	Howland Reed
ch_15	Arthur Dayne	killedBy	ch_60	Eddard Stark
ch_18	Balon Greyjoy	killedBy	ch_66	Euron Greyjoy

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_20	Barristan Selmy	killedBy	None	Sons of H
ch_21	Benjen Stark	killedBy	None	Wig
ch_22	Beric Dondarrion	killedBy	ch_300	Sandor Cleg
ch_22	Beric Dondarrion	killedBy	None	Wig
ch_24	Biter	killedBy	ch_300	Sandor Cleg
ch_26	Black Walder Rivers	killedBy	ch_16	Arya S
ch_28	Bowen Marsh	killedBy	ch_124	Jon Sr
ch_29	Brandon Stark	killedBy	ch_4	Aer
ch_34	Brother Ray	killedBy	ch_161	Lemoncl
ch_37	Catelyn Stark	killedBy	ch_26	Black Wal
ch_38	Catspaw Assassin	killedBy	ch_327	Sumi
ch_39	Cersei Lannister	killedBy	None	Roof colla
ch_43	Craster	killedBy	ch_129	Karl Tar
ch_45	Daenerys Targaryen	killedBy	ch_124	Jon Sr
ch_49	Dickon Tarly	killedBy	ch_45	Daene
ch_50	Dongo the Giant	killedBy	ch_236	Nig
ch_52	Dontos Hollard	killedBy	ch_258	Petyr Ba
ch_53	Doran Martell	killedBy	ch_63	Ellaria Sa
ch_54	Doreah	killedBy	ch_45	Daene
ch_55	Dothraki Bloodrider #1	killedBy	ch_45	Targar
ch_56	Dothraki Bloodrider #2	killedBy	ch_45	Targar
ch_57	Drennan	killedBy	ch_254	O
ch_60	Eddard Stark	killedBy	ch_109	Ilyn Pa
ch_61	Eddison Tollett	killedBy	None	Wi

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_64	Elia Martell	killedBy	ch_88	Gregor Clegane
ch_66	Euron Greyjoy	killedBy	ch_114	Jaime Lannister
ch_69	Gared	killedBy	ch_363	White Walker
ch_70	Gatins	killedBy	ch_300	Sandor Clegane
ch_72	Gerold Hightower	killedBy	ch_60	Eddard Stark
ch_79	Grand Maester Pycelle	killedBy	None	Little Bro
ch_80	Great Master #1	killedBy	None	Rebel Slave
ch_80	Great Master #1	killedBy	ch_355	Viseri Lannister
ch_80	Great Master #1	killedBy	ch_279	Rhaegar Targaryen
ch_88	Gregor Clegane	killedBy	ch_300	Sandor Clegane
ch_89	Greizhen mo Ullhor	killedBy	None	Unsullied
ch_90	Grenn	killedBy	ch_191	Mag the Mighty
ch_91	Grey Wind	killedBy	None	Fallen Crossbowman
ch_97	Harry Strickland	killedBy	ch_92	Grey Worm
ch_100	High Septon	killedBy	None	Kings Landing Rioter
ch_101	High Sparrow	killedBy	ch_39	Cersei Lannister
ch_102	Hizdahr zo Loraq	killedBy	None	Sons of the Harpy
ch_103	Hodor	killedBy	None	Wiggy
ch_107	Hugh of the Vale	killedBy	ch_88	Gregor Clegane
ch_110	Irri	killedBy	ch_54	Dor Lannister
ch_113	Jafer Flowers	killedBy	ch_363	White Walker
ch_114	Jaime Lannister	killedBy	None	Roof collar
ch_115	Janos Slynt	killedBy	ch_124	Jon Snow
ch_119	Jeor Mormont	killedBy	ch_272	Petyr Baelish
ch_121	Joffrey Baratheon	killedBy	ch_258	Petyr Baelish
ch_121	Joffrey Baratheon	killedBy	ch_249	Olenna Tyrell

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_122	Jojen Reed	killedBy	ch_206	Meera Reed
ch_123	Jon Arryn	killedBy	ch_185	Lysa Arryn
ch_124	Jon Snow	killedBy	ch_6	Alliser Thorne
ch_124	Jon Snow	killedBy	ch_255	Othell Yarwynd
ch_124	Jon Snow	killedBy	ch_28	Bowen Man
ch_124	Jon Snow	killedBy	ch_250	Samwell Tarly
ch_126	Jorah Mormont	killedBy	None	Wiggor
ch_127	Jory Cassel	killedBy	ch_114	Jaime Lannister
ch_128	Joyeuse Erenford	killedBy	ch_37	Catelyn Stark
ch_129	Karl Tanner	killedBy	ch_124	Jon Snow
ch_130	Karsi	killedBy	None	Pack of Wildlings
ch_132	Kegs	killedBy	None	Wildling
ch_133	Kevan Lannister	killedBy	ch_39	Cersei Lannister
ch_134	Khal Drogo	killedBy	ch_45	Daenerys Targaryen
ch_135	Khal Moro	killedBy	ch_45	Daenerys Targaryen
ch_136	Khal Rhalko	killedBy	ch_45	Daenerys Targaryen
ch_141	King's Landing Rioter #1	killedBy	ch_300	Sandor Clegane
ch_142	King's Landing Rioter #2	killedBy	ch_300	Sandor Clegane
ch_143	King's Landing Rioter #3	killedBy	ch_300	Sandor Clegane
ch_149	Kraznys mo Nakloz	killedBy	ch_58	Drogo
ch_150	Kurleket	killedBy	None	Mountain Clansmen
ch_151	Lady	killedBy	ch_60	Eddard Stark
ch_152	Lady Crane	killedBy	ch_335	The Vale
ch_153	Lancel Lannister	killedBy	ch_39	Cersei Lannister
ch_159	Lead Dornish Guard	killedBy	ch_33	Bronn

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_160	Leaf	killedBy	None	Wiggor
ch_161	Lem Lemoncloak	killedBy	ch_300	Sandor Clegane
ch_171	Loboda	killedBy	ch_363	White Walker
ch_172	Locke	killedBy	ch_103	Hodor
ch_174	Lommy Greenhands	killedBy	ch_260	Pollum
ch_175	Loras Tyrell	killedBy	ch_39	Cersei Lannister
ch_178	Lord Varys	killedBy	ch_45	Daenerys Targaryen
ch_180	Lothar Frey	killedBy	ch_16	Arya Stark
ch_183	Lyanna Mormont	killedBy	ch_374	Wun Wun
ch_184	Lyanna Stark	killedBy	ch_124	Jon Snow
ch_185	Lysa Arryn	killedBy	ch_258	Petyr Baratheon
ch_186	Mace Tyrell	killedBy	ch_39	Cersei Lannister
ch_187	Maester Aemon	killedBy	None	Old Nan
ch_188	Maester Cressen	killedBy	ch_188	Maester Cressen
ch_189	Maester Luwin	killedBy	ch_254	Oberyn Martell
ch_191	Mag the Mighty	killedBy	ch_90	Grey Worm
ch_191	Mag the Mighty	killedBy	None	Donnellyn
ch_191	Mag the Mighty	killedBy	None	Cocaine
ch_193	Mago	killedBy	ch_134	Khal Drogo
ch_196	Mance Rayder	killedBy	ch_209	Melisandre
ch_196	Mance Rayder	killedBy	ch_124	Jon Snow
ch_197	Mandon Moore	killedBy	ch_259	Podrick Payne
ch_200	Margaery Tyrell	killedBy	ch_39	Cersei Lannister
ch_203	Martyn Lannister	killedBy	ch_284	Rickard Karstark
ch_205	Matthos Seaworth	killedBy	ch_33	Bronn
ch_209	Melisandre	killedBy	None	Old Nan
ch_210	Merchant Captain	killedBy	ch_245	Obara Sand
ch_211	Mero	killedBy	ch_44	Daario Naharis

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_212	Meryn Trant	killedBy	ch_16	Arya Stark
ch_216	Mirri Maz Duur	killedBy	ch_45	Daenerys Targaryen
ch_217	Missandei	killedBy	ch_88	Gregor Clegane
ch_219	Mossador	killedBy	ch_44	Daario Naharis
ch_228	Mycah	killedBy	ch_300	Sandor Clegane
ch_229	Myranda	killedBy	ch_337	Theon Greyjoy
ch_230	Myrcella Baratheon	killedBy	ch_63	Ellaria Sand
ch_231	Ned Umber	killedBy	ch_333	The Night King
ch_244	Nymeria Sand	killedBy	ch_66	Euron Greyjoy
ch_245	Obara Sand	killedBy	ch_66	Euron Greyjoy
ch_246	Oberyn Martell	killedBy	ch_88	Gregor Clegane
ch_249	Olenna Tyrell	killedBy	ch_114	Jaime Lannister
ch_250	Olly	killedBy	ch_124	Jon Snow
ch_252	Orell	killedBy	ch_124	Jon Snow
ch_254	Osha	killedBy	ch_270	Ramsay Stark
ch_255	Othell Yarwyck	killedBy	ch_124	Jon Snow
ch_256	Othor	killedBy	ch_363	White Walker
ch_256	Othor	killedBy	ch_124	Jon Snow
ch_258	Petyr Baelish	killedBy	ch_16	Arya Stark
ch_260	Polliver	killedBy	ch_16	Arya Stark
ch_261	Prendahl na Ghezn	killedBy	ch_44	Daario Naharis
ch_262	Pyat Pree	killedBy	ch_58	Drogo
ch_262	Pyat Pree	killedBy	ch_355	Viseer Tyrell
ch_262	Pyat Pree	killedBy	ch_279	Rhaegar Targaryen
ch_263	Pypar	killedBy	ch_379	Ygritte
ch_265	Qhorin Halfhand	killedBy	ch_124	Jon Snow
ch_266	Qotho	killedBy	ch_126	Jorah Mormont
ch_268	Qyburn	killedBy	ch_88	Gregor Clegane

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_269	Rakharo	killedBy	None	Khal Jhaq Khal
ch_270	Ramsay Snow	killedBy	None	Ramsay Snow House
ch_271	Randall Tarly	killedBy	ch_45	Daenerys Targaryen
ch_272	Rast	killedBy	ch_73	Ghiscari
ch_273	Rattleshirt	killedBy	ch_346	Tormund Giantsbane
ch_274	Razdal mo Eraz	killedBy	ch_92	Grey Worm
ch_275	Red Keep Stableboy	killedBy	ch_16	Arya Stark
ch_278	Renly Baratheon	killedBy	ch_209	Melisandre
ch_279	Rhaegal	killedBy	ch_66	Euron Greyjoy
ch_280	Rhaegar Targaryen	killedBy	ch_288	Robert Baratheon
ch_281	Rhaego	killedBy	ch_216	Mirri Maz Duur
ch_283	Rhaenys Targaryen	killedBy	ch_88	Gregor Clegane
ch_284	Rickard Karstark	killedBy	ch_287	Robb Stark
ch_285	Rickard Stark	killedBy	ch_4	Aeryn Targaryen
ch_286	Rickon Stark	killedBy	ch_270	Ramsay Snow
ch_287	Robb Stark	killedBy	ch_292	Roose Bolton
ch_288	Robert Baratheon	killedBy	None	Bronn
ch_291	Rodrik Cassel	killedBy	ch_337	Theon Greyjoy
ch_292	Roose Bolton	killedBy	ch_270	Ramsay Snow
ch_293	Rorge	killedBy	ch_16	Arya Stark
ch_294	Ros	killedBy	ch_121	Joffrey Baratheon
ch_300	Sandor Clegane	killedBy	ch_300	Sandor Clegane
ch_302	Selyse Baratheon	killedBy	ch_302	Sela Baratheon
ch_304	Septa Mordane	killedBy	ch_156	Lannister Guardsman

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_310	Shae	killedBy	ch_350	Tyrion Lannister
ch_312	Shaggydog	killedBy	ch_315	Smalljon Umber
ch_313	Shireen Baratheon	killedBy	ch_209	Melisandre
ch_314	Silk King	killedBy	ch_262	Pyat Pree
ch_315	Smalljon Umber	killedBy	ch_346	Tormund Giantsbane
ch_316	Spice King	killedBy	ch_262	Pyat Pree
ch_317	Stannis Baratheon	killedBy	ch_32	Brienne of Tarth
ch_325	Stiv	killedBy	ch_337	Theon Greyjoy
ch_326	Styr	killedBy	ch_124	Jon Snow
ch_327	Summer	killedBy	None	Wights
ch_328	Syrio Forel	killedBy	ch_212	Meryn Trant
ch_329	Talisa Maegyr	killedBy	ch_180	Lothar Bratt
ch_333	The Night King	killedBy	ch_16	Arya Stark
ch_334	The Tickler	killedBy	ch_116	Jaqen H'ghar
ch_335	The Waif	killedBy	ch_16	Arya Stark
ch_336	Thenn Warg	killedBy	ch_299	Samwell Tarly
ch_337	Theon Greyjoy	killedBy	ch_333	The Night King
ch_340	Three-Eyed Raven	killedBy	ch_333	The Night King
ch_345	Tommen Baratheon	killedBy	ch_345	Tommen Baratheon
ch_347	Trystane Martell	killedBy	ch_245	Obara Sand
ch_349	Tyene Sand	killedBy	ch_39	Cersei Lannister
ch_351	Tywin Lannister	killedBy	ch_350	Tyrion Lannister
ch_353	Vardis Egen	killedBy	ch_33	Bronn
ch_354	Varly	killedBy	ch_75	Goldcloak
ch_355	Viserion	killedBy	ch_333	The Night King
ch_355	Viserion	killedBy	ch_16	Arya Stark
ch_356	Viserys Targaryen	killedBy	ch_134	Khal Drogo

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_357	Walda Bolton	killedBy	None	Ramsay Snitch House
ch_358	Walder Frey	killedBy	ch_16	Arya Stark
ch_359	Wallen	killedBy	ch_287	Robb Stark
ch_361	Waymar Royce	killedBy	ch_363	White Walker
ch_363	White Walker	killedBy	ch_299	Samwell Tarly
ch_363	White Walker	killedBy	ch_124	Jon Snow
ch_369	Will	killedBy	ch_60	Eddard Stark
ch_370	Willem Lannister	killedBy	ch_284	Rickard Karstark
ch_371	Willis Wode	killedBy	None	Mountain Clansman
ch_374	Wun Wun	killedBy	ch_270	Ramsay Strong
ch_374	Wun Wun	killedBy	ch_183	Lya Mormont
ch_376	Xaro Xhoan Daxos	killedBy	ch_45	Daenerys Targaryen
ch_379	Ygritte	killedBy	ch_250	Cat
ch_381	Yoren	killedBy	ch_9	Amory Lannister
ch_184	Lyanna Stark	abductedBy	ch_280	Rhaegar Targaryen
ch_2	Aegon Targaryen	siblings	ch_283	Rhaegar Targaryen
ch_2	Aegon Targaryen	siblings	ch_124	Jon Snow
ch_3	Aeron Greyjoy	siblings	ch_18	Balon Greyjoy
ch_3	Aeron Greyjoy	siblings	ch_66	Euron Greyjoy
ch_4	Aerys II Targaryen	siblings	ch_282	Rhaegar Targaryen
ch_16	Arya Stark	siblings	ch_287	Robb Stark
ch_16	Arya Stark	siblings	ch_301	Sansa Stark
ch_16	Arya Stark	siblings	ch_30	Bran Stark
ch_16	Arya Stark	siblings	ch_286	Rickon Stark
ch_18	Balon Greyjoy	siblings	ch_66	Euron Greyjoy
ch_18	Balon Greyjoy	siblings	ch_3	Aeron Greyjoy
ch_21	Benjen Stark	siblings	ch_29	Brandon Stark

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_21	Benjen Stark	siblings	ch_184	Lyanna Stark
ch_21	Benjen Stark	siblings	ch_60	Eddard Stark
ch_29	Brandon Stark	siblings	ch_184	Lyanna Stark
ch_29	Brandon Stark	siblings	ch_21	Benjen Stark
ch_29	Brandon Stark	siblings	ch_60	Eddard Stark
ch_30	Bran Stark	siblings	ch_287	Robb Stark
ch_30	Bran Stark	siblings	ch_301	Sansa Stark
ch_30	Bran Stark	siblings	ch_16	Arya Stark
ch_30	Bran Stark	siblings	ch_286	Rickon Stark
ch_35	Brynden Tully	siblings	ch_104	Hoster Tully
ch_37	Catelyn Stark	siblings	ch_185	Lysa Arryn
ch_37	Catelyn Stark	siblings	ch_62	Edmure Tully
ch_39	Cersei Lannister	siblings	ch_114	Jaime Lannister
ch_39	Cersei Lannister	siblings	ch_350	Tyrion Lannister
ch_45	Daenerys Targaryen	siblings	ch_280	Rhaegar Targaryen
ch_45	Daenerys Targaryen	siblings	ch_356	Viseer Targaryen
ch_49	Dickon Tarly	siblings	ch_299	Samwell Tarly
ch_49	Dickon Tarly	siblings	ch_330	Talla Tarly
ch_53	Doran Martell	siblings	ch_64	Elia Martell
ch_53	Doran Martell	siblings	ch_246	Oberyn Martell
ch_58	Drogon	siblings	ch_279	Rhaegal
ch_58	Drogon	siblings	ch_355	Viserion
ch_60	Eddard Stark	siblings	ch_29	Brandon Stark
ch_60	Eddard Stark	siblings	ch_21	Benjen Stark
ch_60	Eddard Stark	siblings	ch_184	Lyanna Stark
ch_62	Edmure Tully	siblings	ch_37	Catelyn Stark
ch_62	Edmure Tully	siblings	ch_185	Lysa Arryn
ch_64	Elia Martell	siblings	ch_53	Doran Martell
ch_64	Elia Martell	siblings	ch_246	Oberyn Martell

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_66	Euron Greyjoy	siblings	ch_18	Balon Greyjoy
ch_66	Euron Greyjoy	siblings	ch_3	Aeron Greyjoy
ch_73	Ghost	siblings	ch_91	Grey Wind
ch_73	Ghost	siblings	ch_151	Lancel Lannister
ch_73	Ghost	siblings	ch_243	Nym
ch_73	Ghost	siblings	ch_327	Summer
ch_73	Ghost	siblings	ch_312	Shaggydog
ch_91	Grey Wind	siblings	ch_151	Lancel Lannister
ch_91	Grey Wind	siblings	ch_243	Nym
ch_91	Grey Wind	siblings	ch_327	Summer
ch_91	Grey Wind	siblings	ch_312	Shaggydog
ch_91	Grey Wind	siblings	ch_73	Grey Wind
ch_114	Jaime Lannister	siblings	ch_39	Cersei Lannister
ch_114	Jaime Lannister	siblings	ch_350	Tyrion Lannister
ch_121	Joffrey Baratheon	siblings	ch_230	Myrcella Baratheon
ch_121	Joffrey Baratheon	siblings	ch_345	Tommen Baratheon
ch_122	Jojen Reed	siblings	ch_206	Meera Reed
ch_133	Kevan Lannister	siblings	ch_351	Tywin Lannister
ch_151	Lady	siblings	ch_91	Grey Wind
ch_151	Lady	siblings	ch_243	Nym
ch_151	Lady	siblings	ch_327	Summer
ch_151	Lady	siblings	ch_312	Shaggydog
ch_151	Lady	siblings	ch_73	Grey Wind
ch_153	Lancel Lannister	siblings	ch_203	Margaery Tyrell
ch_153	Lancel Lannister	siblings	ch_370	Willem Lannister
ch_175	Loras Tyrell	siblings	ch_200	Margaery Tyrell
ch_184	Lyanna Stark	siblings	ch_29	Brandon Stark
ch_184	Lyanna Stark	siblings	ch_21	Benjen Stark
ch_184	Lyanna Stark	siblings	ch_60	Eddard Stark

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_185	Lysa Arryn	siblings	None	Catelyn Tully
ch_185	Lysa Arryn	siblings	ch_62	Edmure Tully
ch_200	Margaery Tyrell	siblings	ch_175	Loras Tyrell
ch_203	Martyn Lannister	siblings	ch_153	Lancel Lannister
ch_203	Martyn Lannister	siblings	ch_370	Willem Lannister
ch_230	Myrcella Baratheon	siblings	ch_121	Joffrey Baratheon
ch_230	Myrcella Baratheon	siblings	ch_345	Tommen Baratheon
ch_243	Nymeria	siblings	ch_91	Grey Worm
ch_243	Nymeria	siblings	ch_151	Lancel Lannister
ch_243	Nymeria	siblings	ch_327	Summer
ch_243	Nymeria	siblings	ch_312	Shaggydog
ch_243	Nymeria	siblings	ch_73	Ghiscari
ch_246	Oberyn Martell	siblings	ch_53	Doran Martell
ch_246	Oberyn Martell	siblings	ch_64	Elia Martell
ch_278	Renly Baratheon	siblings	ch_288	Robb Baratheon
ch_278	Renly Baratheon	siblings	ch_317	Stannis Baratheon
ch_279	Rhaegal	siblings	ch_58	Drop
ch_279	Rhaegal	siblings	ch_355	Viseri
ch_280	Rhaegar Targaryen	siblings	ch_45	Daenerys Targaryen
ch_280	Rhaegar Targaryen	siblings	ch_356	Vise
ch_282	Rhaella Targaryen	siblings	ch_4	Aerys Targaryen
ch_286	Rickon Stark	siblings	ch_287	Robb Stark
ch_286	Rickon Stark	siblings	ch_301	Sansa Stark
ch_286	Rickon Stark	siblings	ch_16	Arya Stark
ch_286	Rickon Stark	siblings	ch_30	Bran Stark
ch_287	Robb Stark	siblings	ch_301	Sansa Stark
ch_287	Robb Stark	siblings	ch_16	Arya Stark

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_287	Robb Stark	siblings	ch_30	Bran Stark
ch_287	Robb Stark	siblings	ch_286	Rickon Stark
ch_288	Robert Baratheon	siblings	ch_317	Stannis Baratheon
ch_288	Robert Baratheon	siblings	ch_278	Renly Baratheon
ch_299	Samwell Tarly	siblings	ch_49	Dickon Tarly
ch_299	Samwell Tarly	siblings	ch_330	Talla Tarly
ch_300	Sandor Clegane	siblings	ch_88	Gregor Clegane
ch_301	Sansa Stark	siblings	ch_287	Robb Stark
ch_301	Sansa Stark	siblings	ch_16	Arya Stark
ch_301	Sansa Stark	siblings	ch_30	Bran Stark
ch_301	Sansa Stark	siblings	ch_286	Rickon Stark
ch_312	Shaggydog	siblings	ch_91	Grey Wind
ch_312	Shaggydog	siblings	ch_151	Lancel
ch_312	Shaggydog	siblings	ch_243	Nym
ch_312	Shaggydog	siblings	ch_327	Summer
ch_312	Shaggydog	siblings	ch_73	Grey Worm
ch_317	Stannis Baratheon	siblings	ch_288	Robert Baratheon
ch_317	Stannis Baratheon	siblings	ch_278	Renly Baratheon
ch_327	Summer	siblings	ch_91	Grey Wind
ch_327	Summer	siblings	ch_151	Lancel
ch_327	Summer	siblings	ch_243	Nym
ch_327	Summer	siblings	ch_312	Shaggydog
ch_327	Summer	siblings	ch_73	Grey Worm
ch_330	Talla Tarly	siblings	ch_49	Dickon Tarly
ch_330	Talla Tarly	siblings	ch_299	Samwell Tarly
ch_337	Theon Greyjoy	siblings	ch_377	Yara Greyjoy
ch_345	Tommen Baratheon	siblings	ch_121	Joffrey Baratheon

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_345	Tommen Baratheon	siblings	ch_230	Myrcella Baratheon
ch_350	Tyrion Lannister	siblings	ch_39	Cersei Lannister
ch_350	Tyrion Lannister	siblings	ch_114	Jaime Lannister
ch_355	Viserion	siblings	ch_58	Drogon
ch_355	Viserion	siblings	ch_279	Rhaegar Targaryen
ch_356	Viserys Targaryen	siblings	ch_45	Daenerys Targaryen
ch_356	Viserys Targaryen	siblings	ch_280	Rhaenys Targaryen
ch_370	Willem Lannister	siblings	ch_153	Lancel Lannister
ch_370	Willem Lannister	siblings	ch_203	Maeve Lannister
ch_377	Yara Greyjoy	siblings	ch_337	Theon Greyjoy
ch_4	Aerys II Targaryen	servedBy	ch_15	Arthur Dayne
ch_4	Aerys II Targaryen	servedBy	ch_114	Jaime Lannister
ch_32	Brienne of Tarth	servedBy	ch_259	Podrick Payne
ch_45	Daenerys Targaryen	servedBy	ch_20	Barristan Selmy
ch_45	Daenerys Targaryen	servedBy	ch_44	Daario Naharis
ch_45	Daenerys Targaryen	servedBy	ch_92	Grey Worm
ch_45	Daenerys Targaryen	servedBy	ch_126	Jorah Mormont
ch_45	Daenerys Targaryen	servedBy	ch_217	Missandei
ch_45	Daenerys Targaryen	servedBy	ch_350	Tyrion Lannister
ch_351	Tywin Lannister	servedBy	ch_88	Gregor Clegane
ch_283	Rhaenys Targaryen	sibling	ch_2	Aegon Targaryen
ch_283	Rhaenys Targaryen	sibling	ch_124	Jon Snow

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_58	Drogon	guardianOf	ch_45	Daenerys Targaryen
ch_60	Eddard Stark	guardianOf	ch_124	Jon Snow
ch_73	Ghost	guardianOf	ch_124	Jon Snow
ch_91	Grey Wind	guardianOf	ch_287	Robb Stark
ch_114	Jaime Lannister	guardianOf	ch_4	Aerys II Targaryen
ch_114	Jaime Lannister	guardianOf	ch_288	Robert Baratheon
ch_114	Jaime Lannister	guardianOf	ch_121	Joffrey Baratheon
ch_123	Jon Arryn	guardianOf	ch_60	Eddard Stark
ch_123	Jon Arryn	guardianOf	ch_288	Robert Baratheon
ch_151	Lady	guardianOf	ch_301	Sansa Stark
ch_243	Nymeria	guardianOf	ch_16	Arya Stark
ch_279	Rhaegal	guardianOf	ch_45	Daenerys Targaryen
ch_312	Shaggydog	guardianOf	ch_286	Rickon Stark
ch_327	Summer	guardianOf	ch_30	Bran Stark
ch_355	Viserion	guardianOf	ch_45	Daenerys Targaryen
ch_280	Rhaegar Targaryen	abducted	ch_184	Lyanna Stark
ch_2	Aegon Targaryen	houseName	None	Targaryen
ch_3	Aeron Greyjoy	houseName	None	Greyjoy
ch_4	Aerys II Targaryen	houseName	None	Targaryen
ch_7	Alton Lannister	houseName	None	Lannister
ch_16	Arya Stark	houseName	None	Stark
ch_18	Balon Greyjoy	houseName	None	Greyjoy
ch_19	Baratheon Guard	houseName	None	Baratheon
ch_21	Benjen Stark	houseName	None	Stark
ch_26	Black Walder Rivers	houseName	None	Frey

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_29	Brandon Stark	houseName	None	Stark
ch_30	Bran Stark	houseName	None	Stark
ch_35	Brynden Tully	houseName	None	Tully
ch_37	Catelyn Stark	houseName	None	Stark
ch_37	Catelyn Stark	houseName	None	Tully
ch_39	Cersei Lannister	houseName	None	Lannister
ch_39	Cersei Lannister	houseName	None	Baratheon
ch_45	Daenerys Targaryen	houseName	None	Targaryen
ch_53	Doran Martell	houseName	None	Martell
ch_58	Dropion	houseName	None	Targaryen
ch_60	Eddard Stark	houseName	None	Stark
ch_62	Edmure Tully	houseName	None	Tully
ch_63	Ellaria Sand	houseName	None	Sand
ch_64	Elia Martell	houseName	None	Martell
ch_66	Euron Greyjoy	houseName	None	Greyjoy
ch_71	Gendry	houseName	None	Baratheon
ch_73	Ghost	houseName	None	Stark
ch_91	Grey Wind	houseName	None	Stark
ch_104	Hoster Tully	houseName	None	Tully
ch_114	Jaime Lannister	houseName	None	Lannister
ch_119	Jeor Mormont	houseName	None	Mormont
ch_121	Joffrey Baratheon	houseName	None	Baratheon
ch_124	Jon Snow	houseName	None	Snow
ch_124	Jon Snow	houseName	None	Targaryen
ch_126	Jorah Mormont	houseName	None	Mormont
ch_133	Kevan Lannister	houseName	None	Lannister
ch_145	Kitty Frey	houseName	None	Frey
ch_151	Lady	houseName	None	Snow
ch_153	Lancel Lannister	houseName	None	Lannister

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_175	Loras Tyrell	houseName	None	Tyrell
ch_180	Lothar Frey	houseName	None	Frey
ch_183	Lyanna Mormont	houseName	None	Mormont
ch_184	Lyanna Stark	houseName	None	Stark
ch_185	Lysa Arryn	houseName	None	Arryn
ch_185	Lysa Arryn	houseName	None	Tully
ch_186	Mace Tyrell	houseName	None	Tyrell
ch_187	Maester Aemon	houseName	None	Targaryen
ch_200	Margaery Tyrell	houseName	None	Tyrell
ch_203	Martyn Lannister	houseName	None	Lannister
ch_230	Myrcella Baratheon	houseName	None	Baratheon
ch_231	Ned Umber	houseName	None	Umber
ch_243	Nymeria	houseName	None	Sand
ch_244	Nymeria Sand	houseName	None	Martell
ch_245	Obara Sand	houseName	None	Martell
ch_246	Oberyn Martell	houseName	None	Martell
ch_249	Olenna Tyrell	houseName	None	Tyrell
ch_270	Ramsay Snow	houseName	None	Bolton
ch_278	Renly Baratheon	houseName	None	Baratheon
ch_279	Rhaegal	houseName	None	Targaryen
ch_280	Rhaegar Targaryen	houseName	None	Targaryen
ch_282	Rhaella Targaryen	houseName	None	Targaryen
ch_283	Rhaenys Targaryen	houseName	None	Targaryen
ch_285	Rickard Stark	houseName	None	Stark
ch_286	Rickon Stark	houseName	None	Stark
ch_287	Robb Stark	houseName	None	Stark
ch_288	Robert Baratheon	houseName	None	Baratheon
ch_292	Roose Bolton	houseName	None	Bolton

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_295	Roslin Frey	houseName	None	Frey
ch_301	Sansa Stark	houseName	None	Stark
ch_302	Selyse Baratheon	houseName	None	Baratheon
ch_312	Shaggydog	houseName	None	Stark
ch_313	Shireen Baratheon	houseName	None	Baratheon
ch_317	Stannis Baratheon	houseName	None	Baratheon
ch_324	Stevron Frey	houseName	None	Frey
ch_327	Summer	houseName	None	Stark
ch_330	Talla Tarly	houseName	None	Tarly
ch_337	Theon Greyjoy	houseName	None	Greyjoy
ch_345	Tommen Baratheon	houseName	None	Baratheon
ch_347	Trystane Martell	houseName	None	Martell
ch_349	Tyene Sand	houseName	None	Sand
ch_350	Tyrion Lannister	houseName	None	Lannister
ch_351	Tywin Lannister	houseName	None	Lannister
ch_355	Viserion	houseName	None	Targaryen
ch_356	Viserys Targaryen	houseName	None	Targaryen
ch_357	Walda Bolton	houseName	None	Bolton
ch_357	Walda Bolton	houseName	None	Bolton
ch_358	Walder Frey	houseName	None	Frey
ch_370	Willem Lannister	houseName	None	Lannister
ch_377	Yara Greyjoy	houseName	None	Greyjoy
ch_382	Young Benjen Stark	houseName	None	Stark
ch_383	Young Cersei Lannister	houseName	None	Lannister
ch_384	Young Lyanna Stark	houseName	None	Stark
ch_386	Young Ned	houseName	None	Stark
ch_387	Young Ned Stark	houseName	None	Stark

The result of my query is

```
[342]: %%sql
select
    (select min(character_id) from neo4j_characters where characterName=temp_relationships.sourceCharacter)
    as source_character_id,
    sourceCharacter,
    relationship_type,
    (select min(character_id) from neo4j_characters where characterName=temp_relationships.targetCharacter)
    as target_character_id,
    targetCharacter
from
    temp_relationships;
* mysql+pymysql://root:***@localhost?local_infile=1
940 rows affected.
```

source_character_id	sourceCharacter	relationship_type	target_character_id	targetCharacter
ch_4	Aerys II Targaryen	parentOf	ch_45	Daenerys Targaryen
ch_4	Aerys II Targaryen	parentOf	ch_280	Rhaegar Targaryen
ch_4	Aerys II Targaryen	parentOf	ch_356	Viserys Targaryen
ch_18	Balon Greyjoy	parentOf	ch_377	Yara Greyjoy
ch_18	Balon Greyjoy	parentOf	ch_337	Theon Greyjoy
ch_37	Catelyn Stark	parentOf	ch_287	Robb Stark
ch_37	Catelyn Stark	parentOf	ch_301	Sansa Stark
ch_37	Catelyn Stark	parentOf	ch_16	Arya Stark

Data Engineering is Fun!

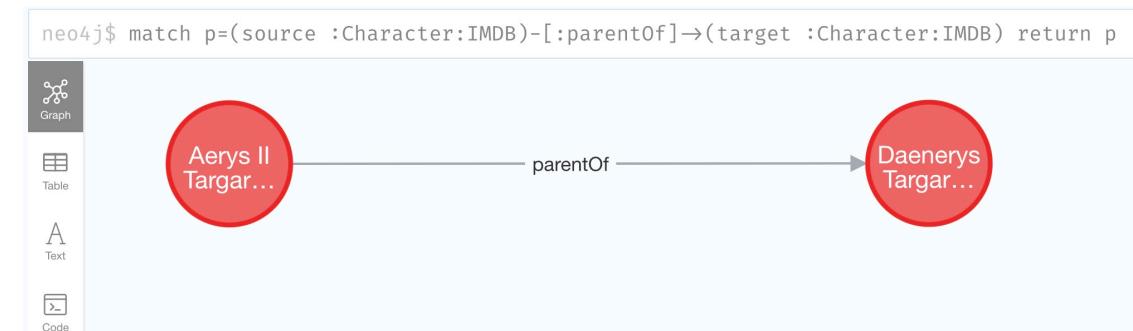
This is where things get really fun. We will load the relationships into Neo4j.

Write a Cypher query that creates the relationships with a label of the form "xxx" where "xxx" is the relationship_type.

To test and debug, you can

1. Set `source_character_id` and `target_character_id` in the cell below.
2. Run the cell to get your query.
3. Copy and paste into the Neo4j console.
4. Run the query and examine the result.

My result looks like.



Neo4j Test Result Screen

```
In [74]: # TODO Student -- Set your query below.
#
source_character_id= "ch_4"
```

```

target_character_id= "ch_45"
relationship_type="parentOf"
# match p=(source :Character:IMDB)-[:parentOf]->(target :Character:IMDB) return p
create_relationship_q = f"""
MERGE (source :Character:IMDB {{character_id: "{source_character_id}"}})
MERGE (target :Character:IMDB {{character_id: "{target_character_id}"}})
CREATE (source)-[:{relationship_type}]->(target)
"""

# Print the query to copy.
#
print(create_relationship_q)

MERGE (source :Character:IMDB {character_id: "ch_4"})
MERGE (target :Character:IMDB {character_id: "ch_45"})
CREATE (source)-[:parentOf]->(target)

```

Now the fun really begins. Super fun. The following query gets the information that will drive loading.

In [75]: `%%sql`

```

info_to_load << select
    (select min(character_id) from neo4j_characters where characterName=temp_relati
        as source_character_id,
    sourceCharacter,
    relationship_type,
    (select min(character_id) from neo4j_characters where characterName=temp_relati
        as target_character_id,
    targetCharacter
from
    temp_relationships;

* mysql+pymysql://root:***@localhost?local_infile=1
940 rows affected.
Returning data to local variable info_to_load

```

In [76]: `info_to_load = [r for r in info_to_load_dicts()]`

In [77]: `info_to_load`

```
Out[77]: [ {'source_character_id': 'ch_2',
   'sourceCharacter': 'Aegon Targaryen',
   'relationship_type': 'parents',
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   'targetCharacter': 'Elia Martell'},
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   'target_character_id': 'ch_280',
   'targetCharacter': 'Rhaegar Targaryen'},
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   'relationship_type': 'parents',
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   'targetCharacter': 'Harald Karstark'},
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   'relationship_type': 'parents',
   'target_character_id': 'ch_60',
   'targetCharacter': 'Eddard Stark'},
{'source_character_id': 'ch_16',
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   'relationship_type': 'parents',
   'target_character_id': 'ch_37',
   'targetCharacter': 'Catelyn Stark'},
{'source_character_id': 'ch_17',
   'sourceCharacter': 'Baby Sam',
   'relationship_type': 'parents',
   'target_character_id': 'ch_299',
   'targetCharacter': 'Samwell Tarly'},
{'source_character_id': 'ch_17',
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   'relationship_type': 'parents',
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{'source_character_id': 'ch_21',
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```

```
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{'source_character_id': 'ch_114',
'sourceCharacter': 'Jaime Lannister',
```

```
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 'relationship_type': 'parents',
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 'targetCharacter': 'Elia Martell'},
{'source_character_id': 'ch_283',
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 'relationship_type': 'parents',
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 'targetCharacter': 'Catelyn Stark'},
{'source_character_id': 'ch_287',
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 'targetCharacter': 'Eddard Stark'},
{'source_character_id': 'ch_287',
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 'relationship_type': 'parents',
 'target_character_id': 'ch_37',
 'targetCharacter': 'Catelyn Stark'},
{'source_character_id': 'ch_290',
 'sourceCharacter': 'Robin Arryn',
 'relationship_type': 'parents',
 'target_character_id': 'ch_123',
 'targetCharacter': 'Jon Arryn'},
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In [78]: # TODO Student -- You will use the loop below and your query to load the information
TODO Student -- Put your query from above in the code below.
#

```

with GraphDatabase.driver(URI, auth=AUTH) as driver:

    for r in info_to_load:
        source_character_id= r['source_character_id']
        target_character_id= r["target_character_id"]
        relationship_type=r["relationship_type"]

        # We should skip the houseName because we loaded that by accident.
        # There are some target characters that were NOT in the original list of ch
        #
        if relationship_type != 'houseName' and target_character_id is not None:

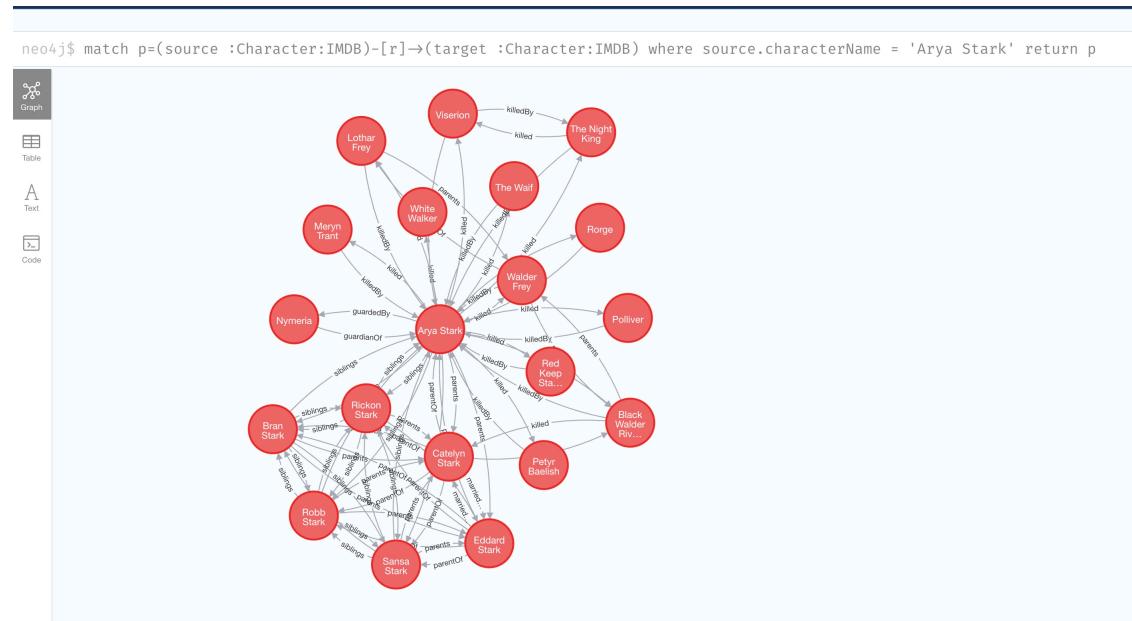
            # TODO Student -- Put your query here.
            create_relationship_q = f"""
                MERGE (source :Character:IMDB {{character_id: "{source_character_id}"}})
                MERGE (target :Character:IMDB {{character_id: "{target_character_id}"}})
                CREATE (source)-[:{relationship_type}]->(target)
            """

            records, summary, keys = driver.execute_query(
                create_relationship_q
            )

            if summary.counters.relationships_created != 1:
                print("Oops. Could not create", r)

```

An example of what things look like after the execution is below



Arya Stark and Friends

This is Where the Magic Happens

Done with homework 3b. And, now on to the final homework.



Time to Make the Magic Happen

In []: