

# Game of Thrones Dataset Documentation

Nteits Nikos  
Mitsis Koutoukis Alexandros

## 1. Table: 4014\_Characters

Description: Stores character information, including attributes related to their identity, actor details, and other properties.

Attributes:

- ID (Primary Key): Unique identifier for each character.
- characterName: Name of the character.
- actorName0 and actorName1: Names of the actor(s) portraying the character.
- houseName: House affiliation of the character.
- nickname: Any nickname or alias the character is known by.
- royal: Boolean value indicating if the character is royal (default is False if unspecified).
- Is\_Animal\_Flag: Boolean value distinguishing non-human characters (e.g., animals, dragons).

Non-UTF-8 characters were cleaned from imported data.

## 2. Table: 4014\_Character\_Relationships

Description: Captures relationships between characters, normalized from the 4014\_Characters table.

Attributes:

- source\_character\_id: The ID of the character initiating the relationship.
- target\_character\_id: The ID of the related character.
- relationship\_type: Type of relationship (e.g., Sibling, Parent, Servant).

The purpose is to normalize relationships, avoid redundancy and enable efficient querying of all types of relationships between characters.

## 3. Table: 4014\_Locations

Description: Stores the unique locations featured in the dataset.

Attributes:

- ID (Primary Key): Unique identifier for each location.
- Location: Name of the location.

## 4. Table: 4014\_Sublocations

Description: Represents sublocations tied to a specific location.

Attributes:

- ID: Foreign key referencing 4014\_Locations(ID).
- Sublocation\_Name: Name of the sublocation.
- Composite Primary Key: (ID, Sublocation\_Name).

The purpose is to allow querying sublocations for a specific location efficiently.

## **5. Table: 4014\_Episodes**

Description: Stores metadata about episodes.

Attributes:

- ID (Primary Key): Unique identifier for each episode.
- seasonNum: Season number.
- episodeNum: Episode number.
- episodeTitle: Title of the
- episode.episodeAirDate: Air date of the episode.
- episodeDescription: Description of the episode (if available).
- eplength: Length of the episode (in minutes).

Note: These attributes were imported directly from the source CSV.

## **6. Table: 4014\_Episodes\_Scenes**

Description: Represents scenes within episodes, including their start and end times.

Attributes:

- ID: Foreign key referencing 4014\_Episodes(ID).
- Scene: Scene number within the episode.
- Start\_Time: Start time of the scene.
- End\_Time: End time of the scene.
- Composite Primary Key: (ID, Scene).

The purpose is to enable scene-specific analysis and time-based queries.

## **7. Table: 4014\_Episodes\_Scene\_Characters**

Description: Links characters to specific scenes in episodes.

Attributes:

- ID: Foreign key referencing 4014\_Episodes(ID).
- Scene: Scene number within the episode.
- Char\_id: Foreign key referencing 4014\_Characters(ID).
- Composite Primary Key: (ID, Scene, Char\_id).

The purpose is to allow querying characters involved in specific scenes of episodes.

Note: Entries in Char\_id that do not exist in 4014\_Characters were omitted.

### **8. Table: 4014\_Episodes\_Scene\_Locations\_Sublocations**

Description: Links scenes to their corresponding locations and sublocations.

Attributes:

- ID: Foreign key referencing 4014\_Episodes(ID).
- Scene: Scene number within the episode.
- Loc\_id: Foreign key referencing 4014\_Locations(ID) (nullable for scenes without a specific location).
- Sub\_Name\_y: Name of the sublocation (nullable for entries without a sublocation).
- Composite Primary Key: (ID, Scene).

The purpose is to allow efficient querying of locations and sublocations associated with scenes.

### **9. Table: 4014\_Opening\_Locations**

Description: Represents opening locations in episodes.

Attributes:

- ID: Foreign key referencing 4014\_Episodes(ID).
- Sub\_Type: Type of opening location (e.g., sequence number).
- Sub\_Name: Name of the sublocation in the opening sequence.
- Composite Primary Key: (ID, Sub\_Type).

## Relational model

### 1. Table: 24\_Characters

Column	Data Type	Constraints
ID	VARCHAR(4)	Primary Key
characterName	VARCHAR(50)	NOT NULL
actorName0	VARCHAR(50)	
actorName1	VARCHAR(50)	
houseName	VARCHAR(50)	
nickname	VARCHAR(50)	
royal	BOOLEAN	
is_animal_flag	BOOLEAN	

### 2. Table: 24\_Character\_Relationships

Column	Data Type	Constraints
source_character_id	VARCHAR(4)	Foreign Key to 24_Characters(ID)
target_character_id	VARCHAR(4)	Foreign Key to 24_Characters(ID)
relationship_type	VARCHAR(15)	
<b>Primary Key</b>	(ID, ID)	Composite Key

### 3. Table: 24\_Locations

Column	Data Type	Constraints
ID	VARCHAR(4)	Primary Key
location	VARCHAR(30)	

### 4. Table: 24\_SubLocations

Column	Data Type	Constraints
ID	VARCHAR(4)	Foreign Key to 24_Locations(ID)
sublocation_name	VARCHAR(50)	
<b>Primary Key</b>	(ID, sublocation_name)	Composite Key

**5. Table: 24\_Episodes**

Column	Data Type	Constraints
ID	VARCHAR(4)	Primary Key
seasonNum	VARCHAR(2)	NOT NULL
episodeNum	VARCHAR(2)	NOT NULL
episodeTitle	VARCHAR(50)	NOT NULL
episodeAirDate	DATE	NOT NULL
episodeDescription	VARCHAR(240)	
eplength	DOUBLE PRECISION	

**6. Table: 24\_Episodes\_Scene\_Times**

Column	Data Type	Constraints
ID	VARCHAR(4)	Foreign Key to 24_Episodes(ID)
scene	INTEGER	
start_time	TIME	
end_time	TIME	
<b>Primary Key</b>	(ID, scene)	Composite Key

**7. Table: 24\_Episodes\_Scene\_Characters**

Column	Data Type	Constraints
ID	VARCHAR(4)	Foreign Key to 24_Episodes(ID)
scene	INTEGER	
char_id	VARCHAR(4)	Foreign Key to 24_Characters(ID)
<b>Primary Key</b>	(ID, scene, char_id)	Composite Key
<b>Foreign Key</b>	(ID, scene)	References 24_Episodes_Scene_Times(ID, scene)

**8. Table: 24\_Episodes\_Scene\_Locations\_Sublocations**

Column	Data Type	Constraints
ID	VARCHAR(4)	Foreign Key to 24_Episodes(ID)

Column	Data Type	Constraints
scene	INTEGER	
loc_id	VARCHAR(4)	Foreign Key to 24_Locations(ID) (nullable, default: 'Unknown')
sub_name_y	VARCHAR(50)	Foreign Key to 24_SubLocations(sublocation_name) (nullable, default: 'Unknown')
<b>Primary Key</b>	(ID, scene)	Composite Key
<b>Foreign Key</b>	(loc_id, sub_name_y)	References 24_SubLocations(ID, sublocation_name)

### 9. Table: 24\_Opening\_Locations

Column	Data Type	Constraints
ID	VARCHAR(4)	Foreign Key to 24_Episodes(ID)
sub_type	VARCHAR(20)	NOT NULL
sub_name	VARCHAR(30)	
<b>Primary Key</b>	(ID, sub_type)	Composite Key

