
Documentation & Data Dictionary: IMDb and Box Office Mojo

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Documentation & Data Dictionary: IMDb and Box Office Mojo

Access IMDb's metadata for every movie, TV series and video game title as well as performers and creators, along with full lifetime box office grosses from IMDbPro's Box Office Mojo. Our bulk data access products help entertainment fans share their passion with the world, including IMDb's 1-10 star rating, a daily-computed average of votes from IMDb's global audience of over 250 million fans.

Our full range of bulk data products are delivered through [Amazon Data Exchange](#) and updated daily. This document explains schema and documentation for all IMDb content available in bulk via Amazon Data Exchange. Data types are packaged across several different data products ranging from IMDb's world-renowned 1-10 star rating, to full industry Box Office grosses from IMDbPro's Box Office Mojo. If you have any questions on our documentation, or would like to access a free sample of our data products, please get in touch via [developer.imdb.com](mailto:developer@imdb.com).

Getting Support

For technical support or licensing questions please email `imdb-licensing@imdb.com`.

Key Concepts

IMDb IDs

IMDb uses unique identifiers for each of the entities referenced in IMDb data. For example we have “Name IDs” identifying name entities (people) and “Title IDs” identifying title entities (movies, series, episodes and video games). IMDb’s identifiers always take the form of two letters, which signify the type of entity being identified, followed by a sequence of at least seven numbers that uniquely identify a specific entity of that type. For example:

- `tt0050083` is the unique identifier for the movie “12 Angry Men (1957)”, where `tt` signifies that it’s a title entity and `0050083` uniquely indicates “12 Angry Men (1957)”.
- `nm0000020` is the unique identifier for the actor “Henry Fonda”, where `nm` signifies that it’s a name entity and `0000020` uniquely indicates “Henry Fonda”.

Within the data set, each entry relates to a single IMDb identifier.

JSON Lines File Format

IMDb’s data set is provided in JSON Lines file format. The files are UTF-8 encoded text files, where each line in the file is a valid JSON string. Each JSON document, one per line, relates to a single entity, uniquely identified by an IMDb ID. We also provide a JSON schema that documents the format that is used for each JSON document within the file.

Versioning

Every published revision of IMDb’s data set contains data file(s), documentation for that data, and a schema which validates that data. Each of these is associated with a correlated version number, which can be found at the end of their filenames.

At any time we may change the format of new data set revisions and their accompanying schema, but previously published data set revisions will remain unchanged. If data from a new revision of the data set is not compatible with the previous schema (i.e. a breaking change) then we will increment the version number for the data files, schema, and documentation. In this case we will publish both

formats of the data set for some period of time before we stop publishing the older one. The data set format and schema may change *without* incrementing the schema version number if the change is compatible with previous revisions (i.e. a non-breaking change).

The following are examples of *non-breaking* changes to the schema:

- Adding a new key anywhere in the structure.
- Removing an optional key.
- Changing a key from optional to required.
- Changing the validation rules for a specific key such that all values still validate against previous validation rules.

The following are examples of *breaking* changes to the schema:

- Changing a key from required to optional.
- Removing a required key.
- Changing the validation rules for a specific key such that newly published values may exist that do not validate against previous validation rules.

Data Structure Conventions

There are some conventions you should be aware of when using IMDb's data set:

- There are no null values in the data set. If we do not have a value for a particular key we omit publishing that key. Keys which are required by the schema will never have a null value.
- There are no empty objects in the data set. If an object would have contained no keys we omit publishing that object.
- There are no empty arrays in the data set. If an array value would have contained no items we omit publishing the corresponding key.

Changes to Entities and Resolving IDs

Duplicate IDs

IMDb's data set is constantly being updated, adding more data and improving the quality of the data we have. While there is only ever one entry per IMDb ID, we sometimes find that we have duplicate IMDb IDs for an entity within our system. For example, we may learn that two people we have identified separately are actually the same person. When this happens, we maintain the data associated

with both identifiers in the data set, duplicating the data. This allows you to continue using any matching you have between IMDb identifiers and other identifiers. To identify when this is the case we include a `remappedTo` field on one of the copies which gives you the new preferred identifier for that entity.

Deleted IDs

Sometimes we delete entities from the data set. The most prominent example of this is the deletion of titles that have been canceled during development and will therefore never be released. When we delete an entity it is no longer included in the data set. The identifier associated with it is never reused for a different entity.

Data Consistency Model

IMDb's data is constantly being expanded and updated, and it can take seconds or minutes for a change to propagate throughout the entire catalog. This means that the snapshot of IMDb's data published may contain temporary inconsistencies. For example, it is possible that we report an actor appearing in a title in their filmography, but it has not yet propagated to that title's credits. Each individual inconsistency will be resolved in the next published revision of the data set.

Linking to IMDb

IMDb's data contains URLs that you can use to link back to the IMDb website in any experience you build for your users. Your license may require you to attach a "refmarker" to the end of the URL. The "refmarker" is a special sequence of characters that we use to identify the source of our traffic. Add the "refmarker" to the URL by appending `?ref_=xx_xxx_x` to the URL, where `xx_xxx_x` is replaced by the code we have provided to you. A full URL could look something like `https://www.imdb.com/title/tt0050083/?ref_=my_ref_marker`.

Data Dictionary - Name Essential

nameId

The unique IMDb ID for the name in question. Each IMDb ID appears exactly once.

name

The primary name by which this person is known, usually the one by which they are most often credited. For more information about how IMDb defines the primary name see [IMDb's help site](#).

awards

A list of awards that this person has won or been nominated for. This includes the name and category of the award, the name and year of the award event, and whether the person won the award. Note that 'winner' may be false because the person is known not to have won the award (where the awards event occurred in the past) or because the winner is not yet known (where the awards event occurs in the future, but the nominations have been announced). If 'winner' is true that means the awards event has already occurred, and the person won the award.

Example

```
{
  "awards": [
    {
      "year": 1958,
      "awardName": "Golden Globe",
      "category": "Best Actor - Drama",
      "winner": false,
      "event": "Golden Globes, USA"
    },
    ...
  ]
}
```

filmography

The filmography for this name as a list of credits. Each credit is within a "category" such as "actress", "director" or "editorial_department". For cast categories (e.g. "actor"), we include the roles

that the person played and the billing they had in the end credits (if available). For crew categories (e.g. “writer”) we include the more specific “jobs” that the person was credited with if applicable. Lists of credits, roles, and jobs are each in on-screen credits order.

Credits can have a list of attributes. At the moment we provide the following attributes:

- “uncredited”: signals that while the person performed this role on the title, they were not present in the title’s end credits.
- “voice”: signals that this person provided a voice only performance for this title.

Additional information about these attributes can be found on [IMDb’s help site](#).

For episodic credits we only include the series in the list. To get full information on which episodes were worked on, look at the episode credits in the title file.

Example

A cast credit

```
{
  "filmography": [
    {
      "titleId": "tt0050083",
      "category": "actor",
      "billing": 8,
      "roles": ["Juror 8"]
    },
    ...
  ]
}
```

A crew credit

```
{
  "filmography": [
    {
      "titleId": "tt0052462",
      "category": "producer",
      "jobs": ["executive producer"]
    },
    ...
  ]
}
```

An uncredited credit

```
{
  "filmography": [
    {
      "titleId": "tt0050083",
      "category": "actor",
      "roles": ["Judge"],
      "attributes": ["uncredited"]
    }
    ...
  ]
}
```

knownFor

A short list of IMDb title IDs for the titles in which this person is most well known for being involved, and the category of job that they had on that title (e.g. “actor” or “director”). This is always a subset of `filmography` but the selection and order is determined by IMDb. For more details see [IMDb's help site](#). For further details on their involvement see the `filmography` entry, or the `creditsByCategory` entry on the title in question.

Example

```
{
  "knownFor": [
    {
      "titleId": "tt0050083",
      "category": "actor"
    },
    ...
  ]
}
```

Data Dictionary - Title Essential

titleId

The unique IMDb ID for the title in question. Each IMDb ID appears exactly once.

remappedTo

If there are duplicate title entities for this title, the IMDb ID of the primary title entity for this title. See “Duplicate IDs” in the “Key Concepts” section of this document for more information.

originalTitle

The original title text of the title, normally what the title is known as in its original country of release.

akas

A list of all available alternative title texts by which this title is also known. Here to help with matching the IMDb title to any other title identifier you may have. Each title is listed with additional information about the usage of that title text, e.g. what region it is from, and what language it is used in.

Example

```
{
  "akas": [
    {
      "title": "12 Homens e uma Sentença",
      "region": "BR"
    },
    ...
  ]
}
```

titleDisplay

A list of alternative title display texts by which this title is also known. Each display text is listed with additional information about the usage of that display text, e.g. what region it is from, and what lan-

guage it is used in. This is a subset of title akas, curated to only contain the title texts for each language and region which are best for displaying to customers.

Example

```
{
  "titleDisplay": [
    {
      "title": "Матрицата",
      "region": "BG",
      "language": "bg"
    },
    ...
  ]
}
```

awards

A list of awards that this title has won or been nominated for. This includes the name and category of the award, the name and year of the award event, and whether the title won the award. Note that 'winner' may be false because the title is known not to have won the award (where the awards event occurred in the past) or because the winner is not yet known (where the awards event occurs in the future, but the nominations have been announced). If 'winner' is true that means the awards event has already occurred, and the title won the award.

Example

```
{
  "awards": [
    {
      "awardName": "Oscar",
      "category": "Best Picture",
      "event": "Academy Awards, USA",
      "winner": false,
      "year": 1958
    },
    ...
  ]
}
```

creditsByCategory

The credits for this title organized by category. Each entry in this list represents a single category and gives you a list of credits within that category. For cast credits we include the roles that the person played and the billing they had in the end credits (if available). For crew credits we include the more specific “jobs” that the person was credited with if applicable. Lists of credits, roles, and jobs are each in on-screen credits order.

Credits can have a list of attributes. At the moment we provide the following attributes:

- “uncredited”: signals that while the person performed this role on the title, they were not present in the title’s end credits.
- “voice”: signals that this person provided a voice only performance for this title.

Additional information about these attributes can be found on [IMDb’s help site](#).

For series we include anyone who is credited on any episode. To get full information on which episodes were worked on by a specific person, look at the episode credits.

Example

A crew category

```
{
  "creditsByCategory": [
    {
      "category": "sound_department",
      "credits": [
        {
          "nameId": "nm0322302",
          "jobs": ["sound"]
        },
        {
          "nameId": "nm0334505",
          "jobs": ["re-recording mixer"],
          "attributes": ["uncredited"]
        }
      ]
    },
    ...
  ]
}
```

A cast category

```
{
  "creditsByCategory": [
    {
      "category": "cast",
      "credits": [
        {
          "nameId": "nm0000842",
          "roles": ["Juror 1"],
          "billing": 1
        },
        {
          "nameId": "nm0275835",
          "roles": ["Juror 2"],
          "billing": 2
        },
        ...
      ]
    },
    ...
  ]
}
```

principalCastMembers

A short list of the most important cast credits for this title. This is always a subset of the cast from the `creditsByCategory` list, but the selection and order is determined by IMDb. Often it is similar to top-billed cast but it can be different, for example if the title credits are in order of appearance or alphabetical. For more details see [IMDb's help site](#). Also includes the role or roles played (in on-screen credits order) and the billing in the full cast list.

Example

```
{
  "principalCastMembers": [
    {
      "nameId": "nm0000020",
      "category": "actor",
      "roles": ["Juror 8"],
      "billing": 8
    }
  ]
}
```

```
    },  
    ...  
  ]  
}
```

principalCrewMembers

A short list of the most important crew credits for this title. This is always a subset of the crew from the `creditsByCategory` list, but the selection and order is determined by IMDb. Also includes the category and job which qualified the credit for this list.

Example

```
{  
  "principalCrewMembers": [  
    {  
      "nameId": "nm0741627",  
      "category": "writer",  
      "job": "story"  
    },  
    ...  
  ]  
}
```

certificates

A list of content rating certifications that have been given to a title, and the region where the rating applies or applied. For example a title may be given a 'PG-13' rating in the 'US' region (by the MPAA). There may be additional attributes about the certificate or reasons for the rating provided by the rating organization.

Example

```
{  
  "certificates": [  
    {  
      "region": "US",  
      "rating": "TV-PG"  
    },  
    ...  
  ]  
}
```

```
    ...  
  ]  
}
```

companies

Lists of the names of distribution, production, special-effects, and other miscellaneous companies associated with the making or subsequent distribution of this title. This list includes all companies that have ever been involved with the title, even if their involvement has now ended. Additional information about companies associated with titles can be found on [IMDb's help site](#). These are ordered by on-screen credit order, or in the case of distribution companies by distribution release date.

Example

```
{  
  "companies": {  
    "distribution": ["United Artists", "CBS/Fox", "Warner Home Video"],  
    "production": ["Orion-Nova Productions"],  
    "miscellaneous": [  
      "International Alliance of Theatrical Stage Employees (IATSE)",  
      "Solters & Digney"  
    ]  
  }  
}
```

countries

A list of ISO 3166 country codes for the countries in which the production companies for the title are based. For more details see [IMDb's help site](#).

episodeInfo

For titles that are episodes, this contains information about the series, such as the series title ID, season number and episode number. It also includes the season and episode numbers where relevant.

Example

```
{  
  "episodeInfo":
```



```
{
  "seriesTitleId": "tt0944947",
  "episodeNumber": 1,
  "seasonNumber": 8
}
```

seriesInfo

For titles that are series, this contains additional information about the series, such as the year it started airing, the year it finished airing (if it has finished), and a list of all the episode title IDs in the series ordered by episode number (e.g. season 1 episode 1, season 1 episode 2, etc.).

Example

```
{
  "seriesInfo": {
    "startYear": 2011,
    "endYear": 2019,
    "episodeTitleIds": [
      "tt1480055",
      "tt1668746",
      "tt1829962",
      ...
    ]
  }
}
```

episodeTitleIds

For titles which are series, the IMDb title IDs for all the episodes of that series.

officialSiteLinks

A list of URLs (and optionally their link titles) linking to this title's official website.

Example

```
{
  "officialSiteLinks": [
    {
      "url": "www.example.com/official/example-title",
      "linkTitle": "Example official website for title"
    },
    ...
  ]
}
```

genres

A list of genres to which this title belongs. The full list of allowed genres and guidelines for how titles should be categorized can be found on [IMDb's help site](#). IMDb defines a limited list of genres but may add more in the future.

image

A URL linking to an image associated with this title, such as a movie poster or still frame. Additionally includes the width and height of the image in pixels.

Example

```
{
  "image": {
    "url": "https://m.media-
      ↪ amazon.com/images/M/MV5BMWU4N2FjNzYtNTVhNC00NzQ0LTg0MjAtYTJlMjFhNGUxZDFmXkEyXkFq
    "height": 1500,
    "width": 974
  }
}
```

imdbUrl

A full URL to see the name or title on www.imdb.com.

isAdult

Whether or not this title contains adult content. Useful if you would like to filter out all adult content from your copy of the data set.

keywords

A list of keywords associated with the title. More information about keywords and guidance for how they might be associated with a title can be found on [IMDb's help site](#).

languages

A list of ISO 639 language codes for the languages spoken in this title, in order of frequency that they are spoken in the title. For more details see [IMDb's help site](#).

locations

A list of locations where scenes from this title were filmed and optionally names or descriptions of the scenes which used that location.

Example

```
{
  "locations": [
    {
      "scenes": ["studio"],
      "place": "Fox Movietone Studio, New York, USA"
    },
    ...
  ]
}
```

movieConnections

A list of IMDb title IDs of other titles which have a connection to this title, and the type of connection, for example titles which reference or spoof this title. Optionally may include a description of the connection. A complete list of current connection types can be found on [IMDb's help site](#), although more may be added in future.

Example

```
{
  "movieConnections": [
    {
      "type": "referenced_in",
      "titleId": "tt2336547",
      "text": "Jack criticizes the film for depicting 11 Americans being
        ↪ swayed by Jane Fonda's father"
    },
    ...
  ]
}
```

plot

A plot description of this title. Most plot descriptions will be just a couple of sentences long, however some may be longer, the 'plot' will contain the shortest of 'plotShort', 'plotMedium' or 'plotLong' and may be omitted. If you are displaying these plots you may need to consider truncation on longer plots.

plotShort

A plot outline of this title, no longer than 239 characters. Plot outlines never contain spoilers.

plotMedium

A plot summary of this title. Most plot summaries will be reasonably brief, a paragraph or two. If there are multiple plot summaries available on this title's Plot page on [IMDb.com](https://www.imdb.com), then the one provided here will have been selected to display prominently on the title's main page by our users or manual vetting team.

plotLong

A synopsis of this title. A long detailed description of the entire plot of the title.

releaseDates

A list of the release dates (ISO 8601 date format) for this title, together with the region (an ISO 3166 country code) to which each release date applies.

Note that each release date may specify year, month and day (e.g. 1979-08-16), year and month (e.g. 1979-08) or only year (e.g. 1979).

Example

```
{
  "releaseDates": [
    {
      "date": "1957-04",
      "region": "GB"
    },
    {
      "date": "1957-04-10",
      "region": "US"
    },
    {
      "date": "2016-02-24",
      "region": "CZ"
    },
    ...
  ]
}
```

Production Status

A list of production statuses for this title in ascending order by date, with the last status being the current production status. The available statuses for in-production listings are available on [IMDb's help site](#).

```
{
  "productionStatus": [
    ...{
      "updated": "2008-12-02",
      "status": "pre production"
    },
    {

```

```
    "updated": "2009-10-24",
    "status": "filming"
  },
  {
    "updated": "2011-04-17",
    "status": "released"
  }
]
```

runtimeMinutes

The running time of this title in minutes.

taglines

A list of taglines for this title. A tagline is a short description or comment on a title that is often displayed on posters. For additional details see [IMDb's help site](#).

titleType

The type of this title, e.g. 'movie' or 'episode'.

imdbRating

The IMDb Rating for the title. The rating is between 1 and 10 and given to one decimal place. See [IMDb's help site](#) for more information on how the rating is calculated. We also include the number of IMDb users who have voted on this title. A single IMDb user can cast a maximum of one vote. This field can be missing from an entry when we do not yet have an IMDb rating for the title in question. This can occur either because it does not yet have enough votes, or it has not yet been released. A TV series rating is not the weighted average of the ratings of individual episodes. Instead, customers vote separately for the rating of the series as a whole via each title's series page.

Example

```
{
  "rating": 8.9,
```

```
"numberOfVotes": 613399  
}
```

year

The year of the earliest release of this title globally.

Data Dictionary - Box Office

boxoffice_title_budgets_v1

This file includes the reported production budget by title, where available.

budgetItemType

A description of the type of budget. The only valid value at this time is “production”.

amount

The budget for the associated titleId and budgetItemType, in USD.

boxoffice_title_grosses_v1

This file includes lifetime grosses for available titles, by area (see Appendix 1).

area

A code describing the area covered by this gross amount. See Appendix 1 for the full list of valid areas.

grossToDate

The lifetime gross for the title within the relevant area, as most recently reported, in USD.

rank

The all-time rank for that title within the relevant area.

boxoffice_title_opening_weekends_v1

This file includes opening weekend grosses for available titles, by area (see Appendix 1), along with the dates covered.

area

A code describing the area covered by this opening weekend. See Appendix 1 for the full list of valid areas.

startDate

The first day of the opening weekend for that title. Formatted as ISO 8601 (YYYY-MM-DD).

endDate

The last day of the opening weekend for that title. Formatted as ISO 8601 (YYYY-MM-DD).

occasionId

The type of date span. The only valid value at this time is “weekend”.

gross

The gross for the title within the relevant area, between the start and end dates, in USD.

numTheaters

The theater count for the title within the relevant area, between the start and end dates.

boxoffice_title_grosses_timeseries_v1

This file includes full time-series data by day, weekend, week, and more for available titles, by area (see Appendix 1), along with the dates covered and lifetime gross as of that time.

Note that not all titles will have complete coverage for every combination of area and occasionId. In other words for any particular area the value of `grossToDate` may not be equal to the sum of all gross values. They are best used in conjunction: `gross` gives you summary data while the time-series file allows you to drill down into more granular slices where available.

area

A code describing the area covered by this gross value. See Appendix 1 for the full list of valid areas.

startDate

The first day of the time span that this entry refers to. Formatted as ISO 8601 (YYYY-MM-DD).

endDate

The last day of the time span that this entry refers to. Formatted as ISO 8601 (YYYY-MM-DD).

occasionId

The type of date span. Valid values include “Weekend”, “Weekly” and “Daily” as well as numerous special events and holidays.

gross

The gross for the title within the relevant area, between the start and end dates, in USD.

grossToDate

The lifetime gross for the title within the relevant area, as of the end date, in USD.

numTheaters

The theater count for the title within the relevant area, between the start and end dates.

rank

The rank for that title within the relevant area between the start and end dates.

Querying Data in Amazon Athena Tables

What is Amazon Athena?

Amazon Athena is an interactive query service that makes it easy to analyze data directly in Amazon Simple Storage Service (Amazon S3) using standard SQL. For more information, and for getting started with Athena, read the [user guide](#).

Getting Started

You first need to create a database in Athena. This process is documented in the [user guide](#)

When you have a database, you're ready to create a table that's based on the dataset. You need to upload your dataset to Amazon S3. When you specify a location for your table you should use a trailing slash for your folder or bucket. Do not use file names or glob characters.

Use: `s3://S3-BUCKET/S3-KEY/`

Don't use: `s3://S3-BUCKET s3://S3-BUCKET/S3-KEY/* s3://S3-BUCKET/S3-KEY/DATASET.JSONL.GZ`

Athena will query all objects in the specified location so it is important that only one dataset is found at that path.

To create a table use the create table DDL statement found at the end of this document. Remember to set the location to the location of your dataset. If you do not need to query all of the columns in the table you can remove them from the create table DDL statement.

Now that you have a table created in Athena based on the data in Amazon S3, you can run queries on the table and see the results in Athena.

We have provided some example queries for common use cases.

What Are the Highest-Rated Movies On IMDb?

IMDb user ratings can be found in the title essential dataset as part of the `imdbRating` structure.

```
select
    tc.titleId,
    tc.originalTitle,
    tc.imdbRating.rating,
    tc.imdbRating.numberOfVotes
from
```

```
    title_essential_v1 as tc
where
    tc.remappedTo is null and tc.titleType = 'movie'
order by
    tc.imdbRating.rating desc,
    tc.imdbRating.numberOfVotes desc
```

Running this query might return the following results:

titleid	originaltitle	rating	numberofvotes
tt0050083	12 Angry Men	8.9	616319
tt0110413	Léon: The Professional	8.5	953632
tt0064116	Once Upon a Time in the West	8.5	278746

What Are the Title Texts for the Titles That a Person Is Known For?

The title IDs that a person is known for can be found in the name essential dataset as part of the knownFor array. To query this array it is necessary to flatten it into multiple rows using CROSS JOIN in conjunction with the UNNEST operator. To include the original title text it is necessary to JOIN the title essential dataset.

```
select
    nc.nameId,
    nc.name,
    u_knownFor.titleId,
    tc.originalTitle
from
    name_essential_v1 as nc
cross join
    unnest(nc.knownFor) with ordinality as t(u_knownFor, ordinal)
join
    title_essential_v1 as tc
    on u_knownFor.titleId = tc.titleId
where
    nc.remappedTo is null
order by
```

```
nc.nameId, ordinal
```

Running this query might return the following results:

nameid	name	titleid	originaltitle
nm0000020	Henry Fonda	tt0050083	12 Angry Men
nm0000020	Henry Fonda	tt0082846	On Golden Pond
nm0000020	Henry Fonda	tt0032551	The Grapes of Wrath

What Are the Names of the Principal Cast for a Title?

The name IDs for the principal cast for a title can be found in the title essential dataset as part of the `principalCastMembers` array. To query this array it is necessary to flatten it into multiple rows using `CROSS JOIN` in conjunction with the `UNNEST` operator. To include the name it is necessary to `JOIN` the name essential dataset.

```
select
    tc.titleId,
    tc.originalTitle,
    nc.name
from
    title_essential_v1 as tc
cross join
    unnest(tc.principalCastMembers) with ordinality as t(u_pcm, ordinal)
join
    name_essential_v1 as nc
    on u_pcm.nameId = nc.nameId
where
    tc.remappedTo is null
order by
    tc.titleId, ordinal
```

Running this query on the sample dataset returns the following results:

titleid	originaltitle	nameid	name
tt0050083	12 Angry Men	nm0000020	Henry Fonda
tt0050083	12 Angry Men	nm0002011	Lee J. Cobb
tt0050083	12 Angry Men	nm0000842	Martin Balsam

What Awards was a Title Nominated for, and who were the Award Nominees?

```

select
    tc.titleId,
    tc.originalTitle,
    tc_awards.awardNominationId,
    tc_awards.awardName,
    nc.nameId,
    nc.name
from
    name_essential_v1 as nc
cross join
    unnest(nc.knownFor) with ordinality as t(u_knownFor, ordinal)
join
    title_essential_v1 as tc
    on u_knownFor.titleId = tc.titleId
cross join
    unnest(tc.awards) as t(tc_awards)
cross join
    unnest(nc.awards) as t(nc_awards)
where
    tc_awards.awardNominationId = nc_awards.awardNominationId

```

Running this query might return the following results:

titleId	originalTitle	awardNominationId	awardName	nameId	name
tt0032551	The Grapes of Wrath	an0052939	Oscar	nm0002034	Jane Darwell
tt0032551	The Grapes of Wrath	an0829169	NBR award	nm0002034	Jane Darwell
tt0032551	The Grapes of Wrath	an0052926	Oscar	nm0000020	Henry Fonda

What Are the Title Texts for Episodes of a Series?

The title IDs for episodes that are part of a series can be found in the title essential dataset as part of the `episodeTitleIds` array. To query this array it is necessary to flatten it into multiple rows using `CROSS JOIN` in conjunction with the `UNNEST` operator. To include the title text it is necessary to `JOIN` the title essential dataset.

```
select
    tc_series.titleId,
    tc_series.originalTitle,
    tc_episode.titleId,
    tc_episode.originalTitle,
    tc_episode.episodeInfo.seasonNumber,
    tc_episode.episodeInfo.episodeNumber
from
    title_essential_v1 as tc_series
cross join
    unnest(tc_series.seriesInfo.episodeTitleIds) as t(u_eti)
join
    title_essential_v1 as tc_episode
    on u_eti = tc_episode.titleId
where
    tc_series.remappedTo is null
order by
    tc_series.titleId,
    tc_episode.episodeInfo.seasonNumber,
    tc_episode.episodeInfo.episodeNumber
```

Running this query might return the following results:

titleid	originaltitle	titleid	originaltitle	seasonnumber	episodenumber
tt5491994	Planet Earth II	tt6142646	Islands	1	1
tt5491994	Planet Earth II	tt6209126	Mountains	1	2
tt5491994	Planet Earth II	tt6209130	Jungles	1	3

What Is the Title Text of the Series for an Episode Title?

The title ID for a series that an episode is part of can be found in the title essential dataset as part of the `episodeInfo` structure. To include the title text it is necessary to JOIN the title essential dataset.

```
select
    tc_episode.titleId,
    tc_episode.originalTitle,
    tc_series.titleId,
    tc_series.originalTitle,
    tc_episode.episodeInfo.seasonNumber,
    tc_episode.episodeInfo.episodeNumber
from
    title_essential_v1 as tc_episode
join
    title_essential_v1 as tc_series
    on tc_episode.episodeInfo.seriesTitleId = tc_series.titleId
where
    tc_episode.remappedTo is null
order by
    tc_episode.titleId
```

Running this query might return the following results:

titleid	originaltitle	titleid	originaltitle	seasonnumber	episodenummer
tt6142646	Islands	tt5491994	Planet Earth II	1	1
tt6209126	Mountains	tt5491994	Planet Earth II	1	2
tt6209130	Jungles	tt5491994	Planet Earth II	1	3

Appendix 1: Box Office Mojo Areas

Area Rollups and Special Areas

Area abbreviation	Full area description	Notes
XDOM	Domestic	Reporting includes US and Canada
XWW	Worldwide	
XNDOM	International	
XA2	Southern, Eastern, and Western Africa	
XA3	South Africa and Nigeria	
XB2	Baltic States	
XBA	Bosnia	
XC3	Czech Republic and Slovakia	
XC4	Belize, Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, Panama and Paraguay	
XCN	Aruba, Belize, Bolivia, Bonaire, Costa Rica, Curacao, and Dominican Republic	
XEW	Ghana, Kenya, Nigeria, Tanzania, Zambia and Uganda	
XG2	West Germany	
XGC	Greece and Cyprus	
XKN	Kenya, Somalia, Tanzania and Uganda	
XL2	Latin America	
XL3	Lebanon and United Arab Emirates	
XM2	Middle East	
XM7	Middle East including United Arab Emirates	
XMO	Miscellaneous Middle East	
XR2	Russia and Commonwealth of Independent States	
XRE	Reunion	

Area		
abbreviation	Full area description	Notes
XRK	Russia, Commonwealth of Independent States and Ukraine	
XS1	Switzerland (German)	
XS2	Serbia and Montenegro	
XS3	Switzerland (French)	
XS4	Switzerland (Italian)	
XS5	Switzerland (French/Italian)	
XT2	Antigua and Barbuda, Barbados, Dominica, Grenada, Guyana, St. Lucia, and St. Vincent	
XW2	West Indies	

Individual Areas

Area abbreviation	Full area description	Notes
AD	Andorra	
AD	Andorra	
AE	United Arab Emirates	
AF	Afghanistan	
AG	Antigua	
AL	Albania	
AM	Armenia	
AN	Netherlands Antilles	
AO	Angola	Included in PT
AQ	Antarctica	
AR	Argentina	
AT	Austria	
AU	Australia	
AW	Aruba	

Area abbreviation	Full area description	Notes
AZ	Azerbaijan	
BT	Bhutan	
BA	Bosnia and Herzegovina	
BB	Barbados	
BE	Belgium	Reporting includes Luxembourg
BH	Bahrain	
BM	Bermuda	
BD	Bangladesh	
BO	Bolivia	
BR	Brazil	
BS	Bahamas	
BW	Botswana	
BY	Belarus	
BZ	Belize	
CH	Switzerland	
CO	Colombia	
CU	Cuba	
CA	Canada	
CN	China	
CL	Chile	
CR	Costa Rica	
CW	Curacao	
CY	Cyprus	
CZ	Czech Republic	
DE	Germany	
DJ	Djibouti	
DK	Denmark	

Area abbreviation	Full area description	Notes
DO	Dominican Republic	
DZ	Algeria	Included in FR
KE	Kenya	
EC	Ecuador	
EE	Estonia	
EG	Egypt	
ES	Spain	
ET	Ethopia	
FI	Finland	
FR	France	Reporting includes Algeria, Monaco, Morocco, and Tunisia
GH	Ghana	
GR	Greece	
GT	Guatemala	
GU	Guinea	
NL	Netherlands	
HK	Hong Kong	
HN	Honduras	
HR	Croatia	
HU	Hungary	
ID	Indonesia	
IE	Ireland	Included in GB
IL	Israel	
IN	India	
IQ	Iraq	
IR	Iran	
IS	Iceland	
IT	Italy	

Area abbreviation	Full area description	Notes
JM	Jamaica	
JO	Jordan	
JP	Japan	
KH	Cambodia	
KR	South Korea	
KW	Kuwait	
KZ	Kazakhstan	
LI	Liechtenstein	
LA	Laos	
LB	Lebanon	
LT	Lithuania	
LV	Latvia	
LU	Luxembourg	Included in BE
MA	Morocco	Included in FR
MK	North Macedonia	
MT	Malta	Included in GB
MN	Mongolia	
MU	Mauritius	
MX	Mexico	
MY	Malaysia	
MZ	Mozambique	
NC	New Caledonia	
NG	Nigeria	
NI	Nicaragua	
NO	Norway	
NZ	New Zealand	Reporting includes Fiji
OM	Oman	

Area abbreviation	Full area description	Notes
PA	Panama	
PS	Palestine	
PE	Peru	
PY	Paraguay	
PH	Philippines	
PK	Pakistan	
PL	Poland	
PR	Puerto Rico	
PT	Portugal	Reporting includes Angola
QA	Qatar	
RO	Romania	
RU	Russia	
RW	Rwanda	
SU	HH Soviet Union	
SN	Senegal	
SA	Saudi Arabia	
SE	Sweden	
SG	Singapore	
SI	Slovenia	
SV	El Salvador	
LK	Sri Lanka	
SK	Slovakia	
SR	Suriname	
SY	Syria	
TH	Thailand	
TR	Turkey	
TT	Trinidad and Tobago	

Area abbreviation	Full area description	Notes
TN	Tunisia	Included in FR
TW	Taiwan	
UT	Uruguay	
GB	Great Britain	Reporting includes, UK, Ireland, and Malta
UZ	Uzbekistan	
VE	Venezuela	
YU	Yugoslavia	
ZA	South Africa	
