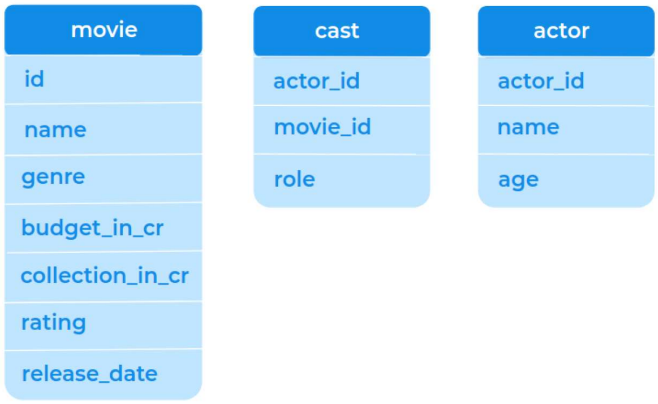
Database

The database contains movies, actors, and cast. You can check the schema and data of movies, actors, and cast tables in the code playground.

Schema



CAST Function

In database management systems, the

`CAST` function is used to convert a value from one data type to another data type.

Syntax

```sql
CAST(value AS data_type);
```

Example

```sql
CAST(strftime('%Y', release_date) AS INTEGER)
```

The

`CAST` function takes:

1. **Value**: The value that you want to convert into a specific data type.
2. **Data type**: The data type to which you want to convert the value.

Example

Let's say you have a database of movie details, and you want to find out how many movies were released in each month of the year 2010.

SQL

```sql
SELECT
  strftime('%m', release_date) AS MONTH,
  COUNT(*) AS total_movies
FROM
  movie
WHERE
  CAST(strftime('%Y', release_date) AS INTEGER) = 2010
GROUP BY
  strftime('%m', release_date);
```

From the above query,

- We want to get the data from the `movie` table.
- We use the `COUNT()` function to count the number of movies released per month in the year 2010.
- We use `strftime('%m', release_date)` to extract the month from the release_date column.
- We also use `strftime('%Y', release_date)` to extract the year from the release_date column.
- We use the `CAST()` function to convert the release date of movies from string format to integer format.
- We use the `WHERE` clause, the year part of the date can be compared with the year `2010` .
- We group the results by month using the `GROUP BY` clause.

Output

month	total_movies
03	2
05	1
06	3
..	..

Try it Yourself!

Now that you've learned about CAST Functions in SQL, let's try some practice exercises. Here are three example questions:

Question 1

Get all the

`collection_in_cr` values from the movie table that's present in the database, where the rating is greater than `8.5` .

Note: For this question, get the values in the

`FLOAT` datatype.

Approach

We need to retrieve all the

`collection_in_cr` values from the movie table that's present in the database where the rating is greater than `8.5` .

Expected Output

collection
46.43
83.68
100.5
...

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Question 2

Get all years from the movie table that's present in the database which belongs to the

`Drama` genre.

Note: For this question, convert the

`year` in string datatype to the `INT` datatype.

Approach

We need to retrieve all the years from the movie table that's present in the database, where the genre is

`Drama` .

Expected Output

year
2008
1972
1974

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Question 3

Get all the DISTINCT

`leap years` from the movie table in the database. A year is considered a leap year if it satisfies any one of the below conditions,

1. It is divisible by `4` and not divisible by `100` .
2. It is divisible by `400` .

Expected Output

year
1972
2008
2016

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