

Aliasing with Functions (Corrected)

The screenshot shows a web browser with the URL `campus.datacamp.com/courses/intermediate-sql/aggregate-functions-3?ex=10`. The page is titled "Aliasing with functions" and contains the following instructions:

1. Select the `title` and `duration` in hours for all films and alias as `duration_hours`; since the current durations are in minutes, you'll need to divide `duration` by `60.0`.
2. Calculate the percentage of `people` who are no longer alive and alias the result as `percentage_dead`.
3. Find how many decades (period of ten years) the `films` table covers by using `MIN()` and `MAX()`; alias as `number_of_decades`.

The code editor on the right shows the following SQL query for Step 1:

```
1 -- Calculate the title and duration_hours from films
2 SELECT title, ----
3 FROM films;
```

The bottom of the page shows a message: "We closed your session due to inactivity. If the problem persists, please report an issue. Restart Session".

Question

1. Select the title and duration in hours for all films and alias as `duration_hours`; since the current durations are in minutes, you'll need to divide duration by 60.0.
2. Calculate the percentage of people who are no longer alive and alias the result as `percentage_dead`.
3. Find how many decades (period of ten years) the films table covers by using `MIN()` and `MAX()`; alias as `number_of_decades`.

Answer

-- Step 1: Calculate the title and `duration_hours`
`SELECT title, duration / 60.0 AS duration_hours`
`FROM films;`

-- Step 2: Calculate the percentage of people who are no longer alive
`SELECT COUNT(deathdate) * 100.0 / COUNT(*) AS percentage_dead`
`FROM people;`

-- Step 3: Calculate the number of decades covered in the films table
`SELECT (MAX(release_year) - MIN(release_year)) / 10 AS`
`number_of_decades`
`FROM films;`

Code Explanation

1. `SELECT title, duration / 60.0 AS duration_hours`: Selects the 'title' column and divides 'duration' by 60.0 to convert minutes into hours, assigning the result the alias 'duration_hours'.
2. `FROM films`: Specifies the 'films' table as the data source.
3. `SELECT COUNT(deathdate) * 100.0 / COUNT(*) AS percentage_dead`: Counts the number of people with a deathdate (i.e., those who are no longer alive) and calculates the percentage by dividing by the total count of people and multiplying by 100.
4. `FROM people`: Specifies the 'people' table as the data source.
5. `SELECT (MAX(release_year) - MIN(release_year)) / 10 AS number_of_decades`: Finds the range of years in the films table by subtracting the minimum release_year from the maximum release_year, dividing the result by 10 to calculate decades, and assigning the alias 'number_of_decades'.
6. `FROM films`: Specifies the 'films' table as the data source.