

Movie Data Analytics Project

Dataset

<https://edureka.wistia.com/medias/7qd5lgmko4>

Dataset Description

Column1: Movie ID

Column2: Movie name

Column3: Year of release

Column4: Rating of the movie

Column5: Movie duration in seconds

Problem Statement

- A. Find the number of movies released between 1950 and 1960.
- B. Find the number of movies having rating more than 4.
- C. Find the number of movies with duration more than 2 hours (7200 second).
- D. Find the list of years and number of movies released each year.
- E. Find the total number of movies in the dataset.

Solution (using Hive):

Step 1: Create a database using following command.

```
create database project;
```

Step 2: Use your created database.

```
use project;
```

Step 3: Create a table using following command.

```
CREATE TABLE moviedata (movieid INT, name STRING, yearofrelease INT, rating FLOAT, duration INT) ROW FORMAT DELIMITED FIELDS TERMINATED BY ',';
```

Step 4: Load data to the table created using following command.

```
LOAD DATA LOCAL INPATH 'moviedata.txt' OVERWRITE INTO TABLE moviedata;
```

Solution for problem (A)---Find the number of movies released between 1950 and 1960.

```
Select count(*) from (select distinct name from moviedata where yearofrelease between 1950 AND 1960)a;
```

Output:

```
Total MapReduce CPU Time Spent: 4 seconds 760 msec  
OK  
545  
Time taken: 30.112 seconds, Fetched: 1 row(s)
```

Solution for problem (B)--Find the number of movies having rating more than 4.

```
select count(distinct name) from moviedata where rating>4.0;
```

Output:

```
Total MapReduce CPU Time Spent: 8 seconds 70 msec  
OK  
841  
Time taken: 29.037 seconds, Fetched: 1 row(s)
```

Solution for problem (C)-- Find the number of movies with duration more than 2 hours (7200 second).

```
select count(distinct name) from moviedata where duration>7200;
```

Output:

```
Total MapReduce CPU Time Spent: 4 seconds 900 msec  
OK  
641  
Time taken: 14.998 seconds, Fetched: 1 row(s)
```

Solution for problem (D)-- Find the list of years and number of movies released each year.

```
select yearofrelease,count(distinct name) from moviedata group by yearofrelease;
```

Output:(due to limited space I have taken first 10 results)

```
OK
1913 3
1914 20
1915 1
1916 1
1918 1
1919 3
1920 6
1921 2
1922 2
1923 4
```

Solution for problem (E)-- Find the total number of movies in the dataset.

```
Select count(distinct name) from moviedata;
```

Output:

Total MapReduce CPU Time Spent: 4 seconds 470 msec

OK

49143

Time taken: 15.096 seconds, Fetched: 1 row(s)