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/* Insights on Disney Movies Gross
-- For this analysis, I will be using a dataset that contains all
-- 579 movies between 1937 and 2016 released by Disney
-- and the top 20% Movies that brought 80% of Disney's Gross Income
*/
--
-- What is the Total Gross after adjusted inflation?
--
SELECT SUM(CAST(dm.inflation_adjusted_gross AS NUMERIC)) AS "Total Gross" --
TotalInflationAdjustedGross
FROM disney_movies_total_gross dm
--
-- Disney made a total of USD 68,763,500,997 in income in 79 years, just wow!

--
-- What is the total number of movies released?
--
SELECT COUNT(dm.movie_title) AS "Movie Title"
FROM disney_movies_total_gross dm
--
-- Disney released a total of 579

--
-- What are the Top Movies by Gross Income?
--
SELECT dm.movie_title AS "Movie Title"
      ,CAST(dm.release_date AS DATE) AS "Release Date"
      ,SUM(CAST(dm.inflation_adjusted_gross AS NUMERIC)) AS "Movie Gross"
FROM disney_movies_total_gross dm
GROUP BY dm.movie_title, CAST(dm.release_date AS DATE)
ORDER BY SUM(CAST(dm.inflation_adjusted_gross AS NUMERIC)) DESC
--
-- Snow White and the Seven Dwarfs was the best performing movie in terms of gross income as at 2016

--
-- What are the Bottom Movies by Gross Income?
--
SELECT dm.movie_title AS "Movie Title"
      ,CAST(dm.release_date AS DATE) AS "Release Date"
      ,SUM(CAST(dm.inflation_adjusted_gross AS NUMERIC)) AS "Movie Gross"
FROM disney_movies_total_gross dm
GROUP BY dm.movie_title, CAST(dm.release_date AS DATE)
ORDER BY SUM(CAST(dm.inflation_adjusted_gross AS NUMERIC)) ASC
--
-- The 'The Many Adventures of Winnie the Pooh' was the worst performing movie in terms of gross
income as at 2016

--
-- What are the Top Genres by Gross Income?
--
SELECT dm.genre AS Genre
      ,dm.movie_title AS "Movie Title"
      ,CAST(dm.release_date AS DATE) AS "Release Date"
      ,SUM(CAST(dm.inflation_adjusted_gross AS NUMERIC)) AS "Movie Gross"
FROM disney_movies_total_gross dm
WHERE dm.genre IS NOT NULL
GROUP BY dm.genre, dm.movie_title, CAST(dm.release_date AS DATE)
ORDER BY SUM(CAST(dm.inflation_adjusted_gross AS NUMERIC)) DESC
--
-- Interestingly, Disney seems to make more money from Adventure Movies

--
-- What are the Top MPAA Film Rating system by Gross Income?
--
SELECT dm.mpaa_rating AS "MPAA Rating"
      ,dm.movie_title AS "Movie Title"
      ,CAST(dm.release_date AS DATE) AS "Release Date"
      ,SUM(CAST(dm.inflation_adjusted_gross AS NUMERIC)) AS "Movie Gross"
FROM disney_movies_total_gross dm

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WHERE dm.mpa_rating IS NOT NULL
GROUP BY dm.mpa_rating, dm.movie_title, CAST(dm.release_date AS DATE)
ORDER BY SUM(CAST(dm.inflation_adjusted_gross AS NUMERIC)) DESC
--
-- So, General Audiences - G with "Snow White and the Seven Dwarfs" as the highest by Gross Income
--
-- Listing all the moving in descending order by their inflation adjusted gross
-- % change between total gross and inflation adjusted gross
-- Also, create a running total of all for all movies
--
WITH TotalInflationAdjustedGross AS
(
    SELECT SUM(CAST(dm.inflation_adjusted_gross AS NUMERIC)) AS TotalInflationAdjustedGross
    FROM disney_movies_total_gross dm
),
MovieGross AS
(
    SELECT dm.movie_title AS MovieTitle
        ,CAST(dm.release_date AS DATE) AS ReleaseDate
        ,SUM(CAST(dm.total_gross AS NUMERIC)) AS TotalMovieGross
        ,SUM(CAST(dm.inflation_adjusted_gross AS NUMERIC)) AS MovieGross
    FROM disney_movies_total_gross dm
    GROUP BY dm.movie_title, CAST(dm.release_date AS DATE)
)
SELECT mg.MovieTitle AS "Movie Title"
    ,mg.ReleaseDate AS "Release Date"
    ,mg.MovieGross AS "Movie Gross"
    ,SUM(mg.MovieGross) OVER (ORDER BY mg.MovieGross DESC) AS "Cumulative Adjusted Gross"
    ,SUM(mg.MovieGross) OVER (ORDER BY mg.MovieGross DESC) / (SELECT
TotalInflationAdjustedGross FROM TotalInflationAdjustedGross ) AS "Cumulative % Gross"
FROM MovieGross mg
ORDER BY mg.MovieGross DESC

-- Disney earned more from the Top 7 Movies which are 20% out of the 100%
-- Inflation adjusted gross released from 1937 - 2013

-- Conclusion: From the above findings, we would notice "Snow White and the Seven Dwarfs"
-- is the highest movie by Inflation Adjusted Gross which is 7.6% of the entire gross income
-- earned by Disney and it happens to be very first movie released. It must have been a hit.
-- Most with the high gross incomes are rated G and are mainly Adventures. Lastly, Disney earned
more income
-- from the Top 7 Movies which are 20% out of the 100% inflation adjusted gross
-- of movies released from 1937 - 2013.

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