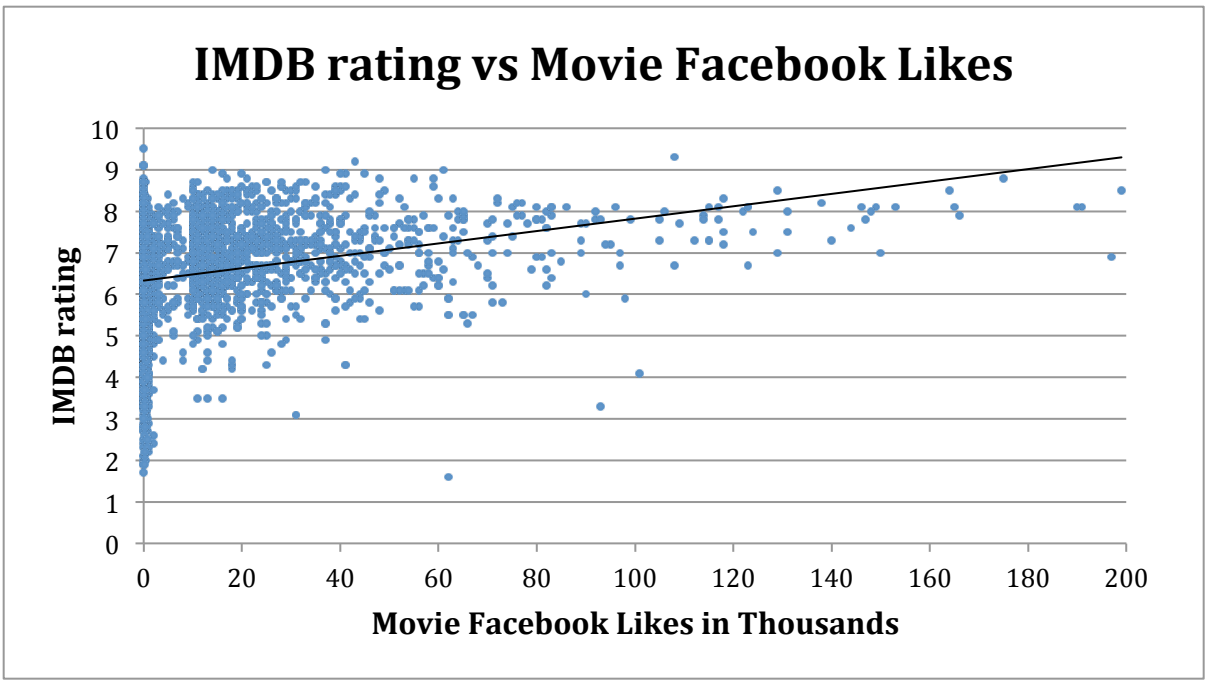
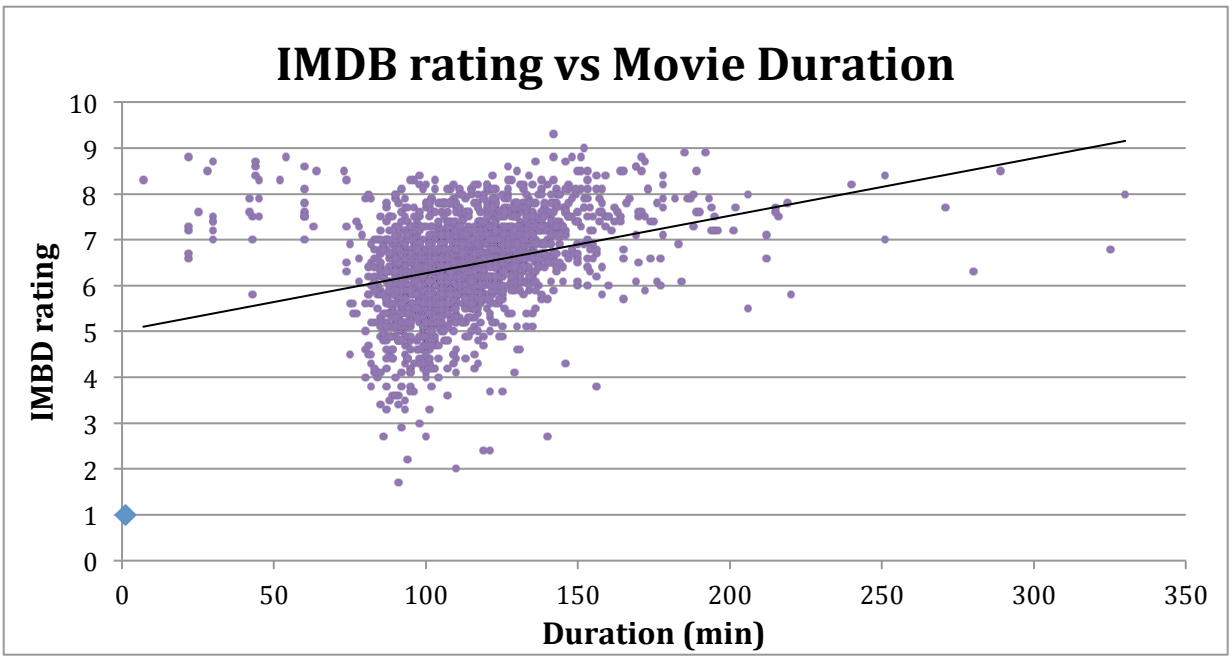


Summary:

$y = 1E\text{-}05x + 6.3304$

$R^2 = 0.06162$

There appears to be a very weak correlation between a film's Facebook likes and its IMDB score. However, we do see that movies with over 100,000 Facebook likes tend to have an IMDB score of 7 or above. But overall a film's Facebook popularity is not a good predictor of the film's IMDB score.

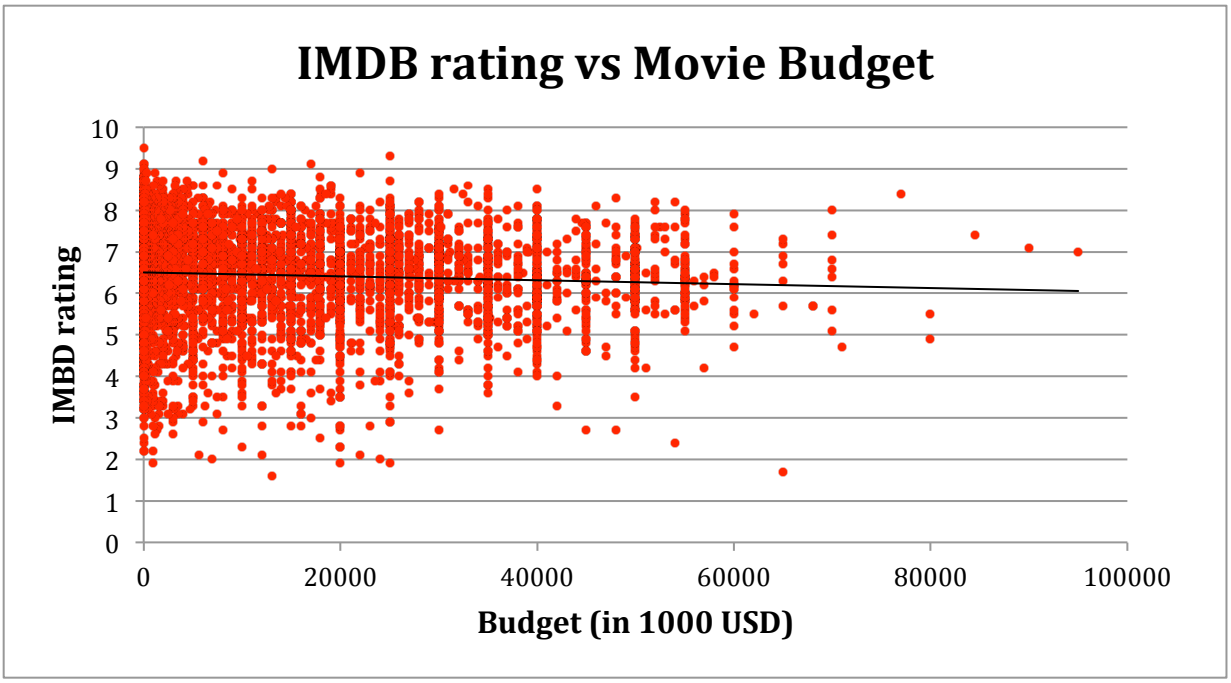


Summary:

$y = 0.0125x + 5.0152$

$R^2 = 0.10215$

There appears to be a weak correlation between a film's duration and its IMDB score. However, film duration appears to be a better predictor than the other variables I looked at (i.e budget and movie and cast Facebook popularity). Movies lasting longer than 150 minutes or 2.5 hours tend to have IMDB scores of 6 or higher. Film duration is a weak predictor of IMDB score.

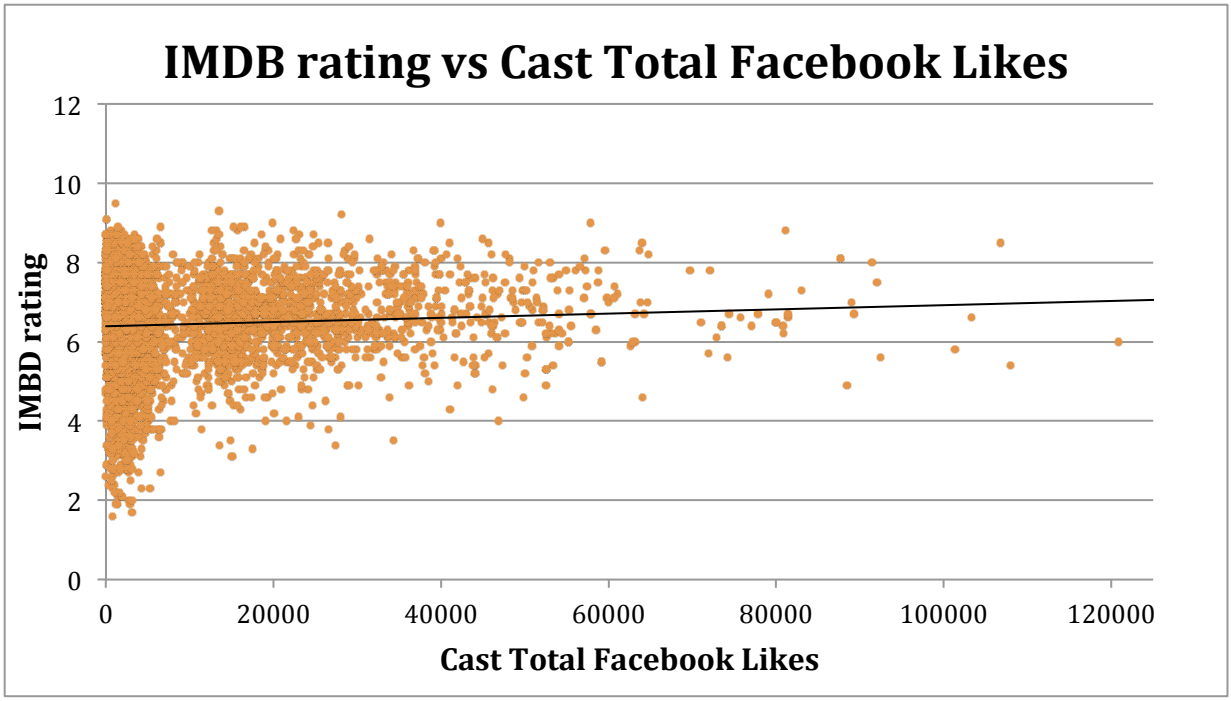


Summary:

$y = -5E\text{-}09x + 6.5029$

$R^2 = 0.00421$

There appears to be no correlation between a film's budget and its IMDB score. So film budget should not be used to predict a movie's IMDB score.



Summary:

$y = 5E\text{-}06x + 6.3906$

$R^2 = 0.00736$

There doesn't appear to be a correlation between a film's cast total Facebook likes and its IMDB score. This means that the popularity of the cast in Facebook is not a good predictor of the score their film would receive in IMDB.