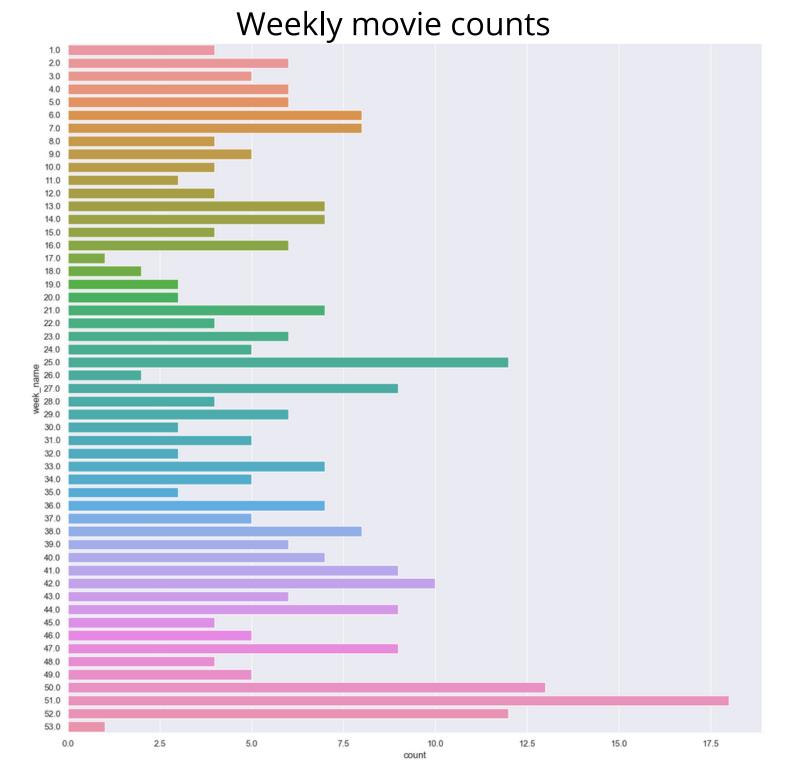
# Imdb Exploratory Data Analysis

### **Objective variables:**

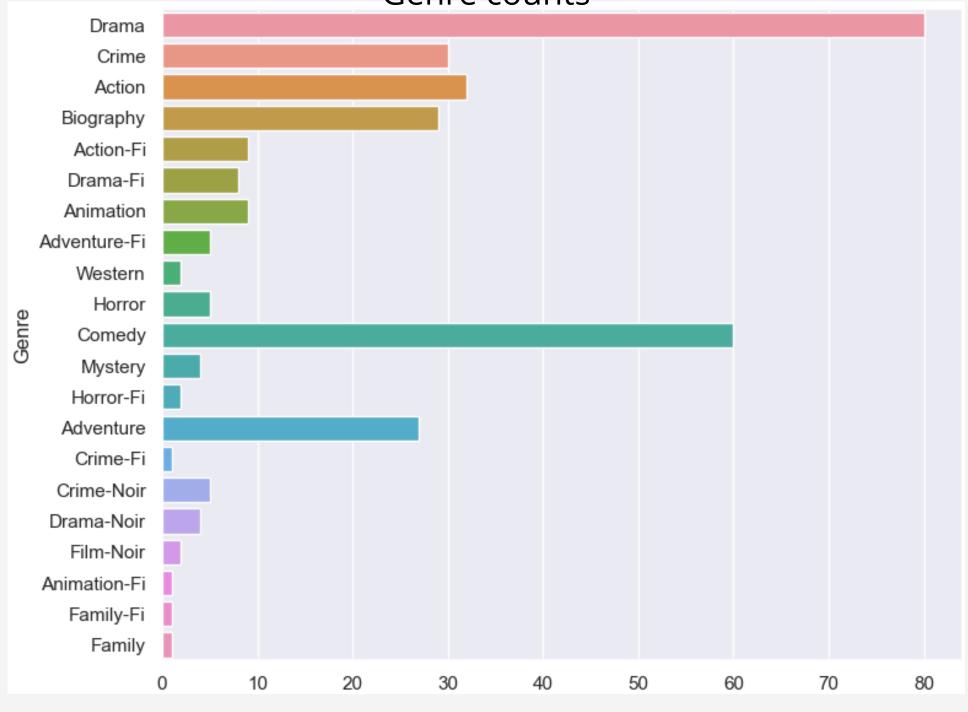
- Imdb rating
- Gross income

#### **Features:**

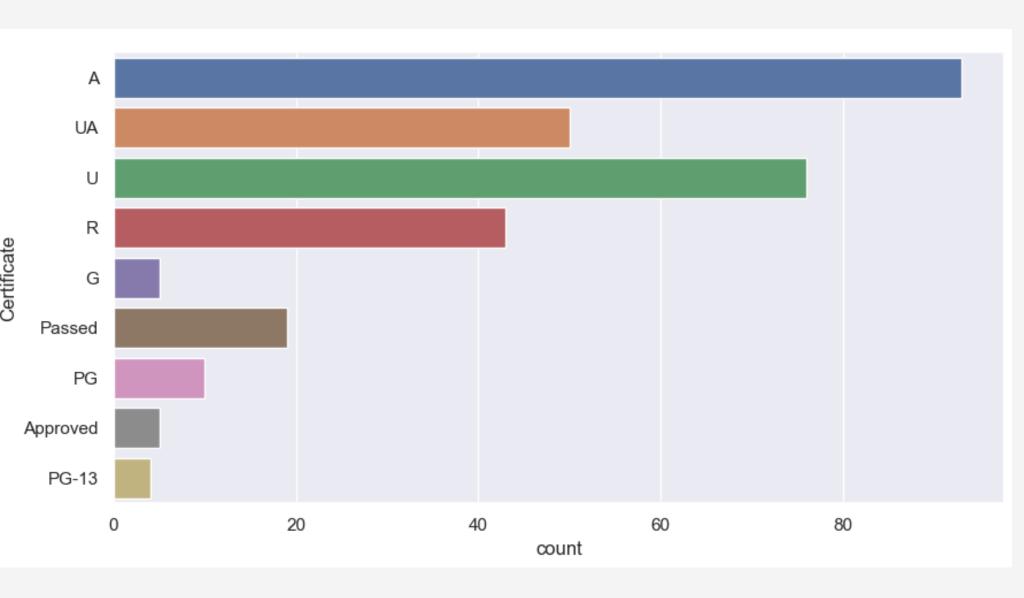
- Genre
- Certificate
- Country of origin
- Language
- Runtime
- Number of votes



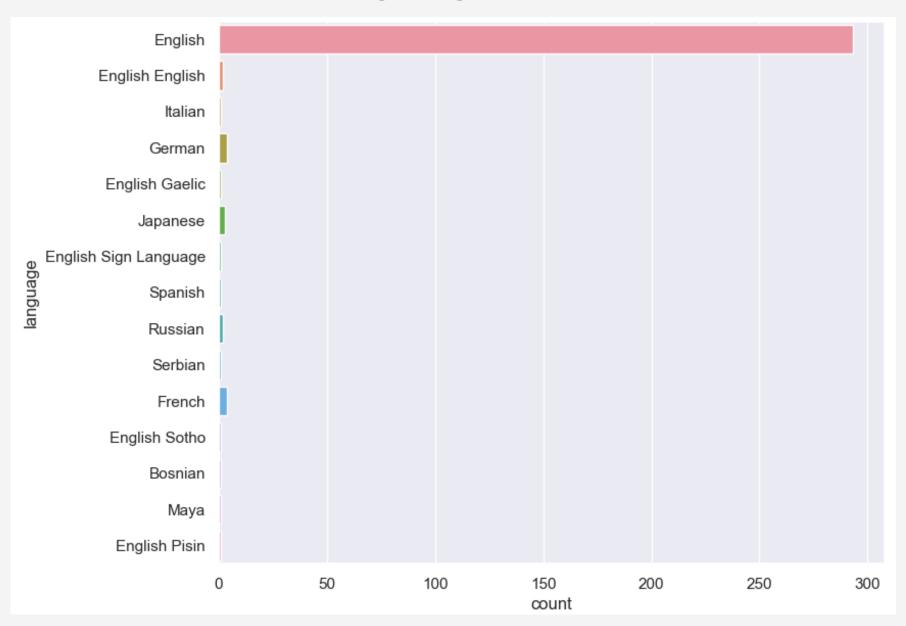
Genre counts



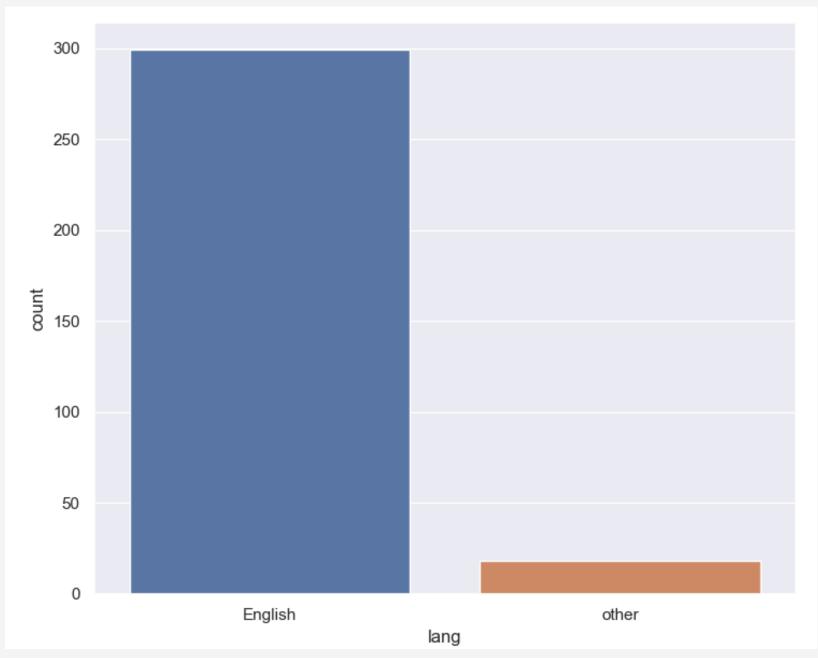
#### Certification counts



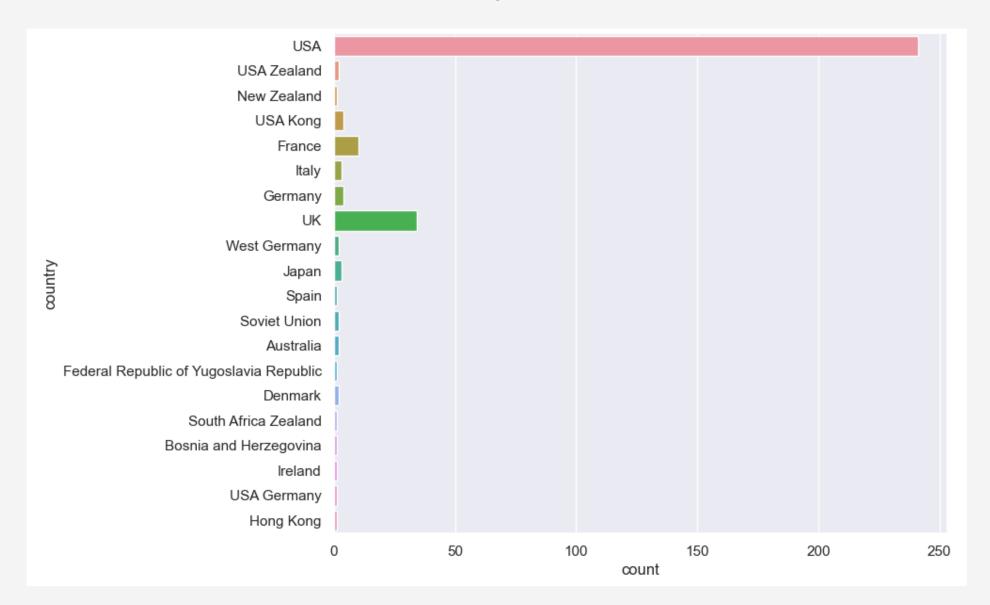
## Language counts



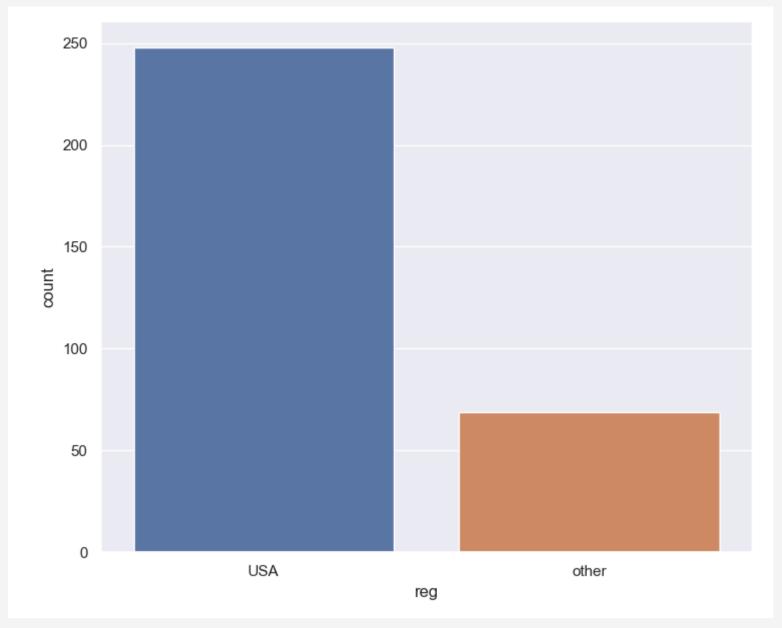
## Language counts

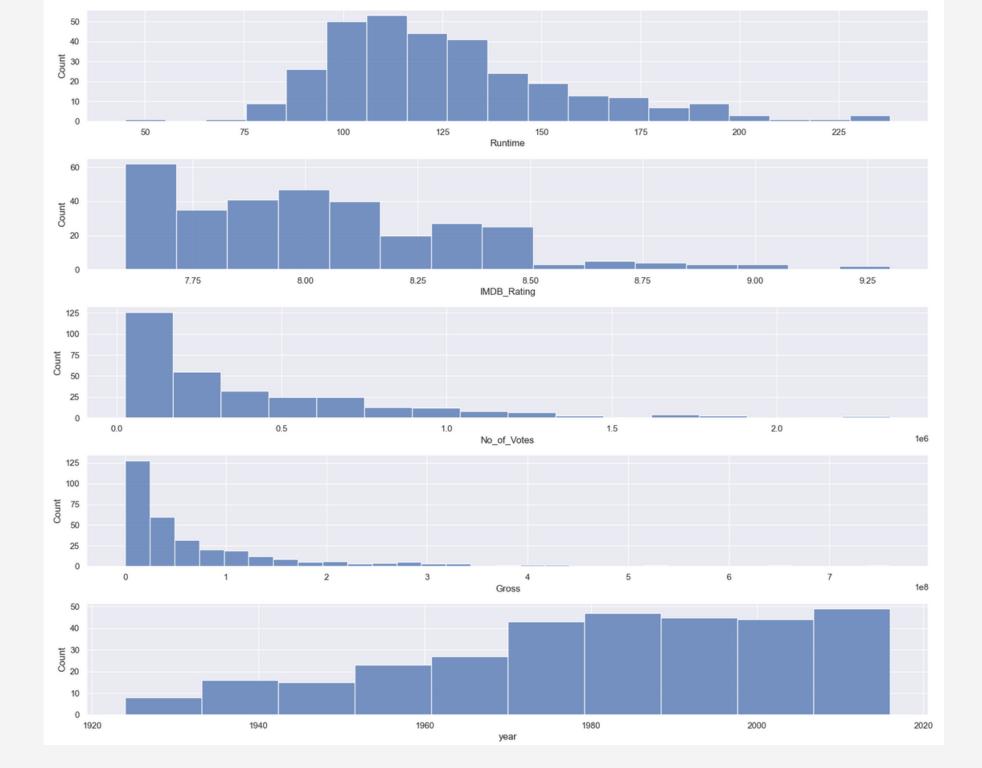


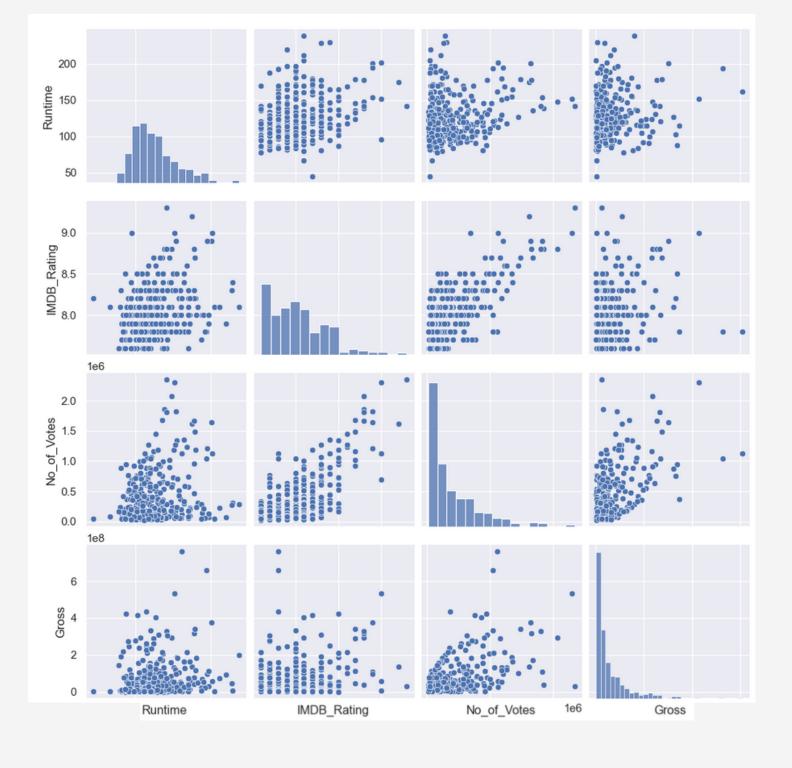
## Country counts

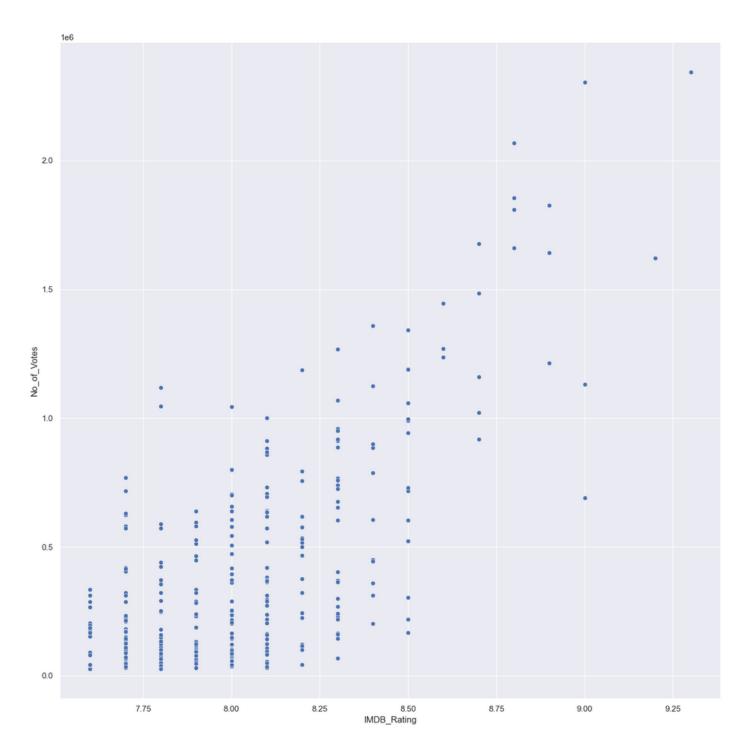


# Country counts

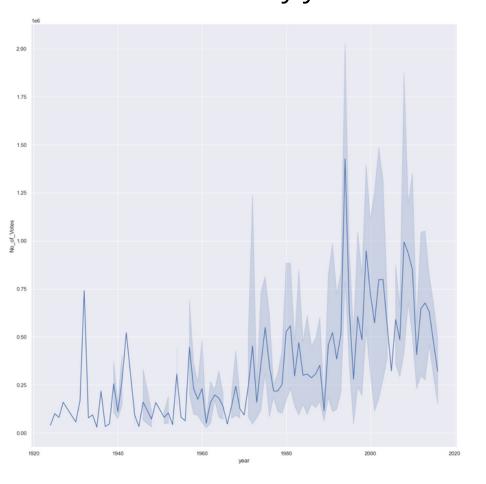




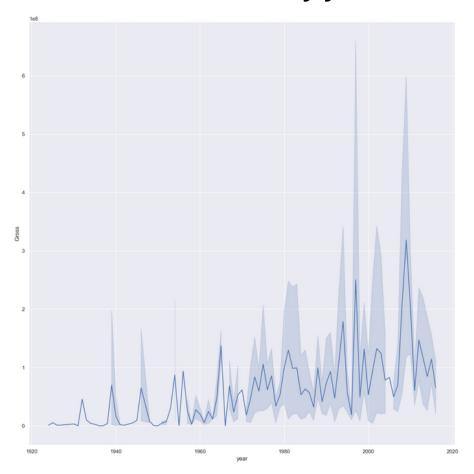




N° of votes by year



Gross revenue by year



#### MLR Imdb rating

OLS Regression Resu	ılts			
Dep. Variable:	IMDB_Rating	R-squared:	0.677	
Model:	OLS	Adj. R-squared:	0.640	
Method:	Least Squares	st Squares F-statistic:		
Date:	Thu, 09 Feb 2023	Prob (F-statistic):	8.01e-50	
Time:	13:11:59	Log-Likelihood:	87.762	
No. Observations:	305	AIC:	-109.5	
Df Residuals:	272	BIC:	13.25	
Df Model:	32			
Covariance Type:	nonrobust	Rmse: 0.14		

#### **Independent variables:**

- Certificate
- Genre
- Country of origin
- Language
- Number of votes
- Runtime

Coef   std err   T   P> t    [0.025   0.975]							
Certificate[T.Approved]         0.2712         0.103         2.629         0.009         0.068         0.474           Certificate[T.G]         0.4147         0.096         4.333         0.000         0.226         0.603           Certificate[T.PG]         0.1140         0.069         1.664         0.097         -0.021         0.249           Certificate[T.PG-13]         0.0272         0.103         0.264         0.792         -0.176         0.230           Certificate[T.Passed]         0.2554         0.054         4.730         0.000         0.149         0.362           Certificate[T.U]         0.0833         0.034         2.434         0.016         0.016         0.151           Certificate[T.UA]         -0.1530         0.037         -4.161         0.000         -0.225         -0.081           Genre[T.Action-Fi]         -0.0040         0.074         -0.054         0.957         -0.150         0.142           Genre[T.Adventure-Fi]         0.0292         0.094         0.310         0.757         -0.156         0.214           Genre[T.Adventure-Fi]         0.0292         0.094         0.310         0.757         -0.156         0.214           Genre[T.Adventure-Fi]         0.0292 <t< th=""><th></th><th>coef</th><th>std err</th><th>t</th><th>P&gt; t </th><th>[0.025</th><th>0.975]</th></t<>		coef	std err	t	P> t	[0.025	0.975]
Certificate[T.G]	Intercept	7.5591	0.066	113.848	0.000	7.428	7.690
Certificate[T.PG]	Certificate[T.Approved]	0.2712	0.103	2.629	0.009	0.068	0.474
Certificate[T.PG-13]         0.0272         0.103         0.264         0.792         -0.176         0.230           Certificate[T.Passed]         0.2554         0.054         4.730         0.000         0.149         0.362           Certificate[T.U]         0.0833         0.034         2.434         0.016         0.016         0.151           Certificate[T.UA]         -0.1530         0.037         -4.161         0.000         -0.225         -0.081           Genre[T.Action-Fi]         -0.0040         0.074         -0.054         0.957         -0.150         0.142           Genre[T.Adventure]         0.0239         0.053         0.448         0.654         -0.081         0.129           Genre[T.Adventure-Fi]         0.0292         0.094         0.310         0.757         -0.156         0.214           Genre[T.Animation]         -0.1752         0.080         -2.185         0.030         -0.333         -0.017           Genre[T.Biography]         0.0231         0.052         0.448         0.654         -0.078         0.125           Genre[T.Crime]         0.1233         0.051         2.414         0.016         0.023         0.224           Genre[T.Crime-Fi]         0.0998         0.198 </th <th>Certificate[T.G]</th> <th>0.4147</th> <th>0.096</th> <th>4.333</th> <th>0.000</th> <th>0.226</th> <th>0.603</th>	Certificate[T.G]	0.4147	0.096	4.333	0.000	0.226	0.603
Certificate[T.Passed]         0.2554         0.054         4.730         0.000         0.149         0.362           Certificate[T.R]         -0.0167         0.038         -0.439         0.661         -0.091         0.058           Certificate[T.U]         0.0833         0.034         2.434         0.016         0.016         0.151           Certificate[T.UA]         -0.1530         0.037         -4.161         0.000         -0.225         -0.081           Genre[T.Action-Fi]         -0.0040         0.074         -0.054         0.957         -0.150         0.142           Genre[T.Adventure]         0.0239         0.053         0.448         0.654         -0.081         0.129           Genre[T.Adventure-Fi]         0.0292         0.094         0.310         0.757         -0.156         0.214           Genre[T.Animation-Fi]         0.1785         0.204         0.875         0.382         -0.223         0.580           Genre[T.Biography]         0.0231         0.052         0.448         0.654         -0.078         0.125           Genre[T.Comedy]         0.0227         0.046         0.495         0.621         -0.068         0.113           Genre[T.Crime-Fi]         0.0998         0.198 <th>Certificate[T.PG]</th> <th>0.1140</th> <th>0.069</th> <th>1.664</th> <th>0.097</th> <th>-0.021</th> <th>0.249</th>	Certificate[T.PG]	0.1140	0.069	1.664	0.097	-0.021	0.249
Certificate[T.R]         -0.0167         0.038         -0.439         0.661         -0.091         0.058           Certificate[T.U]         0.0833         0.034         2.434         0.016         0.016         0.151           Certificate[T.UA]         -0.1530         0.037         -4.161         0.000         -0.225         -0.081           Genre[T.Action-Fi]         -0.0040         0.074         -0.054         0.957         -0.150         0.142           Genre[T.Adventure]         0.0239         0.053         0.448         0.654         -0.081         0.129           Genre[T.Adventure-Fi]         0.0292         0.094         0.310         0.757         -0.156         0.214           Genre[T.Animation-Fi]         0.1785         0.204         0.875         0.382         -0.223         0.580           Genre[T.Biography]         0.0231         0.052         0.448         0.654         -0.078         0.125           Genre[T.Comedy]         0.0227         0.046         0.495         0.621         -0.068         0.113           Genre[T.Crime-Fi]         0.0998         0.198         0.504         0.615         -0.290         0.490           Genre[T.Drama-Fi]         0.0491 <td< th=""><th>Certificate[T.PG-13]</th><th>0.0272</th><th>0.103</th><th>0.264</th><th>0.792</th><th>-0.176</th><th>0.230</th></td<>	Certificate[T.PG-13]	0.0272	0.103	0.264	0.792	-0.176	0.230
Certificate[T.U]         0.0833         0.034         2.434         0.016         0.016         0.151           Certificate[T.UA]         -0.1530         0.037         -4.161         0.000         -0.225         -0.081           Genre[T.Action-Fi]         -0.0040         0.074         -0.054         0.957         -0.150         0.142           Genre[T.Adventure]         0.0239         0.053         0.448         0.654         -0.081         0.129           Genre[T.Adventure-Fi]         0.0292         0.094         0.310         0.757         -0.156         0.214           Genre[T.Animation]         -0.1752         0.080         -2.185         0.030         -0.333         -0.017           Genre[T.Biography]         0.0231         0.052         0.448         0.654         -0.078         0.125           Genre[T.Comedy]         0.0227         0.046         0.495         0.621         -0.068         0.113           Genre[T.Crime-Fi]         0.0998         0.198         0.504         0.615         -0.290         0.490           Genre[T.Drama-Fi]         0.0491         0.082         -0.600         0.549         -0.210         0.145           Genre[T.Drama-Fi]         -0.0491         0.082	Certificate[T.Passed]	0.2554	0.054	4.730	0.000	0.149	0.362
Certificate[T.UA]         -0.1530         0.037         -4.161         0.000         -0.225         -0.081           Genre[T.Action-Fi]         -0.0040         0.074         -0.054         0.957         -0.150         0.142           Genre[T.Adventure]         0.0239         0.053         0.448         0.654         -0.081         0.129           Genre[T.Adventure-Fi]         0.0292         0.094         0.310         0.757         -0.156         0.214           Genre[T.Animation]         -0.1752         0.080         -2.185         0.030         -0.333         -0.017           Genre[T.Animation-Fi]         0.1785         0.204         0.875         0.382         -0.223         0.580           Genre[T.Biography]         0.0231         0.052         0.448         0.654         -0.078         0.125           Genre[T.Comedy]         0.0227         0.046         0.495         0.621         -0.068         0.113           Genre[T.Crime]         0.1233         0.051         2.414         0.016         0.023         0.224           Genre[T.Crime-Fi]         0.0998         0.198         0.504         0.615         -0.290         0.490           Genre[T.Drama-Fi]         -0.0491         0.082 <th>Certificate[T.R]</th> <th>-0.0167</th> <th>0.038</th> <th>-0.439</th> <th>0.661</th> <th>-0.091</th> <th>0.058</th>	Certificate[T.R]	-0.0167	0.038	-0.439	0.661	-0.091	0.058
Genre[T.Action-Fi]         -0.0040         0.074         -0.054         0.957         -0.150         0.142           Genre[T.Adventure]         0.0239         0.053         0.448         0.654         -0.081         0.129           Genre[T.Adventure-Fi]         0.0292         0.094         0.310         0.757         -0.156         0.214           Genre[T.Animation]         -0.1752         0.080         -2.185         0.030         -0.333         -0.017           Genre[T.Animation-Fi]         0.1785         0.204         0.875         0.382         -0.223         0.580           Genre[T.Comedy]         0.0231         0.052         0.448         0.654         -0.078         0.125           Genre[T.Crime]         0.1233         0.051         2.414         0.016         0.023         0.224           Genre[T.Crime-Fi]         0.0998         0.198         0.504         0.615         -0.290         0.490           Genre[T.Crime-Noir]         0.1442         0.108         1.334         0.183         -0.069         0.357           Genre[T.Drama-Fi]         -0.0491         0.082         -0.600         0.549         -0.210         0.112           Genre[T.Family]         -0.0545         0.109	Certificate[T.U]	0.0833	0.034	2.434	0.016	0.016	0.151
Genre[T.Adventure]         0.0239         0.053         0.448         0.654         -0.081         0.129           Genre[T.Adventure-Fi]         0.0292         0.094         0.310         0.757         -0.156         0.214           Genre[T.Animation]         -0.1752         0.080         -2.185         0.030         -0.333         -0.017           Genre[T.Animation-Fi]         0.1785         0.204         0.875         0.382         -0.223         0.580           Genre[T.Comedy]         0.0227         0.046         0.495         0.621         -0.068         0.113           Genre[T.Crime]         0.1233         0.051         2.414         0.016         0.023         0.224           Genre[T.Crime-Fi]         0.0998         0.198         0.504         0.615         -0.290         0.490           Genre[T.Crime-Noir]         0.1442         0.108         1.334         0.183         -0.069         0.357           Genre[T.Drama]         0.0629         0.042         1.514         0.131         -0.019         0.145           Genre[T.Drama-Fi]         -0.0491         0.082         -0.600         0.549         -0.210         0.112           Genre[T.Family-Fi]         -0.0491         0.082	Certificate[T.UA]	-0.1530	0.037	-4.161	0.000	-0.225	-0.081
Genre[T.Adventure-Fi]         0.0292         0.094         0.310         0.757         -0.156         0.214           Genre[T.Animation]         -0.1752         0.080         -2.185         0.030         -0.333         -0.017           Genre[T.Animation-Fi]         0.1785         0.204         0.875         0.382         -0.223         0.580           Genre[T.Comedy]         0.0231         0.052         0.448         0.654         -0.078         0.125           Genre[T.Crime]         0.1233         0.051         2.414         0.016         0.023         0.224           Genre[T.Crime-Fi]         0.0998         0.198         0.504         0.615         -0.290         0.490           Genre[T.Crime-Noir]         0.1442         0.108         1.334         0.183         -0.069         0.357           Genre[T.Drama-Fi]         -0.0491         0.082         -0.600         0.549         -0.210         0.112           Genre[T.Drama-Noir]         0.0545         0.109         0.501         0.616         -0.159         0.268           Genre[T.Family-Fi]         -0.2042         0.197         -1.036         0.301         -0.592         0.184           Genre[T.Horror]         0.1308         0.104	Genre[T.Action-Fi]	-0.0040	0.074	-0.054	0.957	-0.150	0.142
Genre[T.Animation]         -0.1752         0.080         -2.185         0.030         -0.333         -0.017           Genre[T.Animation-Fi]         0.1785         0.204         0.875         0.382         -0.223         0.580           Genre[T.Biography]         0.0231         0.052         0.448         0.654         -0.078         0.125           Genre[T.Comedy]         0.0227         0.046         0.495         0.621         -0.068         0.113           Genre[T.Crime]         0.1233         0.051         2.414         0.016         0.023         0.224           Genre[T.Crime-Fi]         0.0998         0.198         0.504         0.615         -0.290         0.490           Genre[T.Crime-Noir]         0.1442         0.108         1.334         0.183         -0.069         0.357           Genre[T.Drama]         0.0629         0.042         1.514         0.131         -0.019         0.145           Genre[T.Drama-Fi]         -0.0491         0.082         -0.600         0.549         -0.210         0.112           Genre[T.Family]         -0.0491         0.082         -0.060         0.549         -0.210         0.112           Genre[T.Family]         -0.0668         0.198 <t< th=""><th>Genre[T.Adventure]</th><th>0.0239</th><th>0.053</th><th>0.448</th><th>0.654</th><th>-0.081</th><th>0.129</th></t<>	Genre[T.Adventure]	0.0239	0.053	0.448	0.654	-0.081	0.129
Genre[T.Animation-Fi]         0.1785         0.204         0.875         0.382         -0.223         0.580           Genre[T.Biography]         0.0231         0.052         0.448         0.654         -0.078         0.125           Genre[T.Comedy]         0.0227         0.046         0.495         0.621         -0.068         0.113           Genre[T.Crime]         0.1233         0.051         2.414         0.016         0.023         0.224           Genre[T.Crime-Fi]         0.0998         0.198         0.504         0.615         -0.290         0.490           Genre[T.Crime-Noir]         0.1442         0.108         1.334         0.183         -0.069         0.357           Genre[T.Drama]         0.0629         0.042         1.514         0.131         -0.019         0.145           Genre[T.Drama-Fi]         -0.0491         0.082         -0.600         0.549         -0.210         0.112           Genre[T.Drama-Noir]         0.0545         0.109         0.501         0.616         -0.159         0.268           Genre[T.Family]-Fi]         -0.2042         0.197         -1.036         0.301         -0.592         0.184           Genre[T.Horror]         0.1308         0.104         <	Genre[T.Adventure-Fi]	0.0292	0.094	0.310	0.757	-0.156	0.214
Genre[T.Biography]         0.0231         0.052         0.448         0.654         -0.078         0.125           Genre[T.Comedy]         0.0227         0.046         0.495         0.621         -0.068         0.113           Genre[T.Crime]         0.1233         0.051         2.414         0.016         0.023         0.224           Genre[T.Crime-Fi]         0.0998         0.198         0.504         0.615         -0.290         0.490           Genre[T.Crime-Noir]         0.1442         0.108         1.334         0.183         -0.069         0.357           Genre[T.Drama]         0.0629         0.042         1.514         0.131         -0.019         0.145           Genre[T.Drama-Fi]         -0.0491         0.082         -0.600         0.549         -0.210         0.112           Genre[T.Family]         -0.0491         0.082         -0.600         0.549         -0.210         0.112           Genre[T.Family]         -0.0491         0.082         -0.600         0.549         -0.210         0.112           Genre[T.Family]         -0.0668         0.198         -0.338         0.735         -0.456         0.322           Genre[T.Family-Fi]         -0.2042         0.197         -1.	Genre[T.Animation]	-0.1752	0.080	-2.185	0.030	-0.333	-0.017
Genre[T.Comedy]         0.0227         0.046         0.495         0.621         -0.068         0.113           Genre[T.Crime]         0.1233         0.051         2.414         0.016         0.023         0.224           Genre[T.Crime-Fi]         0.0998         0.198         0.504         0.615         -0.290         0.490           Genre[T.Crime-Noir]         0.1442         0.108         1.334         0.183         -0.069         0.357           Genre[T.Drama]         0.0629         0.042         1.514         0.131         -0.019         0.145           Genre[T.Drama-Fi]         -0.0491         0.082         -0.600         0.549         -0.210         0.112           Genre[T.Drama-Noir]         0.0545         0.109         0.501         0.616         -0.159         0.268           Genre[T.Family]         -0.0668         0.198         -0.338         0.735         -0.456         0.322           Genre[T.Family-Fi]         -0.2042         0.197         -1.036         0.301         -0.592         0.184           Genre[T.Horror]         0.1308         0.104         1.252         0.212         -0.075         0.336           Genre[T.Mystery]         0.2583         0.103         2.49	Genre[T.Animation-Fi]	0.1785	0.204	0.875	0.382	-0.223	0.580
Genre[T.Crime]         0.1233         0.051         2.414         0.016         0.023         0.224           Genre[T.Crime-Fi]         0.0998         0.198         0.504         0.615         -0.290         0.490           Genre[T.Crime-Noir]         0.1442         0.108         1.334         0.183         -0.069         0.357           Genre[T.Drama]         0.0629         0.042         1.514         0.131         -0.019         0.145           Genre[T.Drama-Fi]         -0.0491         0.082         -0.600         0.549         -0.210         0.112           Genre[T.Drama-Noir]         0.0545         0.109         0.501         0.616         -0.159         0.268           Genre[T.Family]         -0.0668         0.198         -0.338         0.735         -0.456         0.322           Genre[T.Family-Fi]         -0.2042         0.197         -1.036         0.301         -0.592         0.184           Genre[T.Horror]         0.1308         0.104         1.252         0.212         -0.075         0.336           Genre[T.Horror-Fi]         0.2030         0.142         1.433         0.153         -0.076         0.482           Genre[T.Western]         0.1785         0.144         1	Genre[T.Biography]	0.0231	0.052	0.448	0.654	-0.078	0.125
Genre[T.Crime-Fi]         0.0998         0.198         0.504         0.615         -0.290         0.490           Genre[T.Crime-Noir]         0.1442         0.108         1.334         0.183         -0.069         0.357           Genre[T.Drama]         0.0629         0.042         1.514         0.131         -0.019         0.145           Genre[T.Drama-Fi]         -0.0491         0.082         -0.600         0.549         -0.210         0.112           Genre[T.Drama-Noir]         0.0545         0.109         0.501         0.616         -0.159         0.268           Genre[T.Family]         -0.0668         0.198         -0.338         0.735         -0.456         0.322           Genre[T.Family-Fi]         -0.2042         0.197         -1.036         0.301         -0.592         0.184           Genre[T.Horior]         0.1308         0.104         1.252         0.212         -0.075         0.336           Genre[T.Horror-Fi]         0.2030         0.142         1.433         0.153         -0.076         0.482           Genre[T.Western]         0.1785         0.144         1.244         0.215         -0.104         0.461           reg[T.other]         0.0161         0.032         0.	Genre[T.Comedy]	0.0227	0.046	0.495	0.621	-0.068	0.113
Genre[T.Crime-Noir]         0.1442         0.108         1.334         0.183         -0.069         0.357           Genre[T.Drama]         0.0629         0.042         1.514         0.131         -0.019         0.145           Genre[T.Drama-Fi]         -0.0491         0.082         -0.600         0.549         -0.210         0.112           Genre[T.Drama-Noir]         0.0545         0.109         0.501         0.616         -0.159         0.268           Genre[T.Family]         -0.0668         0.198         -0.338         0.735         -0.456         0.322           Genre[T.Family-Fi]         -0.2042         0.197         -1.036         0.301         -0.592         0.184           Genre[T.Film-Noir]         0.0370         0.222         0.167         0.868         -0.400         0.474           Genre[T.Horror]         0.1308         0.104         1.252         0.212         -0.075         0.336           Genre[T.Horror-Fi]         0.2030         0.142         1.433         0.153         -0.076         0.482           Genre[T.Westery]         0.2583         0.103         2.497         0.013         0.055         0.462           Genre[T.Western]         0.1785         0.144 <t< th=""><th>Genre[T.Crime]</th><th>0.1233</th><th>0.051</th><th>2.414</th><th>0.016</th><th>0.023</th><th>0.224</th></t<>	Genre[T.Crime]	0.1233	0.051	2.414	0.016	0.023	0.224
Genre[T.Drama]         0.0629         0.042         1.514         0.131         -0.019         0.145           Genre[T.Drama-Fi]         -0.0491         0.082         -0.600         0.549         -0.210         0.112           Genre[T.Drama-Noir]         0.0545         0.109         0.501         0.616         -0.159         0.268           Genre[T.Family]         -0.0668         0.198         -0.338         0.735         -0.456         0.322           Genre[T.Family-Fi]         -0.2042         0.197         -1.036         0.301         -0.592         0.184           Genre[T.Film-Noir]         0.0370         0.222         0.167         0.868         -0.400         0.474           Genre[T.Horror]         0.1308         0.104         1.252         0.212         -0.075         0.336           Genre[T.Horror-Fi]         0.2030         0.142         1.433         0.153         -0.076         0.482           Genre[T.Wystery]         0.2583         0.103         2.497         0.013         0.055         0.462           Genre[T.Western]         0.1785         0.144         1.244         0.215         -0.104         0.461           reg[T.other]         0.0161         0.032         0.506	Genre[T.Crime-Fi]	0.0998	0.198	0.504	0.615	-0.290	0.490
Genre[T.Drama-Fi]         -0.0491         0.082         -0.600         0.549         -0.210         0.112           Genre[T.Drama-Noir]         0.0545         0.109         0.501         0.616         -0.159         0.268           Genre[T.Family]         -0.0668         0.198         -0.338         0.735         -0.456         0.322           Genre[T.Family-Fi]         -0.2042         0.197         -1.036         0.301         -0.592         0.184           Genre[T.Film-Noir]         0.0370         0.222         0.167         0.868         -0.400         0.474           Genre[T.Horror]         0.1308         0.104         1.252         0.212         -0.075         0.336           Genre[T.Horror-Fi]         0.2030         0.142         1.433         0.153         -0.076         0.482           Genre[T.Mystery]         0.2583         0.103         2.497         0.013         0.055         0.462           Genre[T.Western]         0.1785         0.144         1.244         0.215         -0.104         0.461           reg[T.other]         0.0161         0.032         0.506         0.614         -0.047         0.079           lang[T.other]         0.1562         0.062         2.524<	Genre[T.Crime-Noir]	0.1442	0.108	1.334	0.183	-0.069	0.357
Genre[T.Drama-Noir]         0.0545         0.109         0.501         0.616         -0.159         0.268           Genre[T.Family]         -0.0668         0.198         -0.338         0.735         -0.456         0.322           Genre[T.Family-Fi]         -0.2042         0.197         -1.036         0.301         -0.592         0.184           Genre[T.Film-Noir]         0.0370         0.222         0.167         0.868         -0.400         0.474           Genre[T.Horror]         0.1308         0.104         1.252         0.212         -0.075         0.336           Genre[T.Horror-Fi]         0.2030         0.142         1.433         0.153         -0.076         0.482           Genre[T.Mystery]         0.2583         0.103         2.497         0.013         0.055         0.462           Genre[T.Western]         0.1785         0.144         1.244         0.215         -0.104         0.461           reg[T.other]         0.0161         0.032         0.506         0.614         -0.047         0.079           lang[T.other]         0.1562         0.062         2.524         0.012         0.034         0.278           No of Votes         6.211e-07         3.14e-08         19.793 <th>Genre[T.Drama]</th> <th>0.0629</th> <th>0.042</th> <th>1.514</th> <th>0.131</th> <th>-0.019</th> <th>0.145</th>	Genre[T.Drama]	0.0629	0.042	1.514	0.131	-0.019	0.145
Genre[T.Family]         -0.0668         0.198         -0.338         0.735         -0.456         0.322           Genre[T.Family-Fi]         -0.2042         0.197         -1.036         0.301         -0.592         0.184           Genre[T.Film-Noir]         0.0370         0.222         0.167         0.868         -0.400         0.474           Genre[T.Horror]         0.1308         0.104         1.252         0.212         -0.075         0.336           Genre[T.Horror-Fi]         0.2030         0.142         1.433         0.153         -0.076         0.482           Genre[T.Mystery]         0.2583         0.103         2.497         0.013         0.055         0.462           Genre[T.Western]         0.1785         0.144         1.244         0.215         -0.104         0.461           reg[T.other]         0.0161         0.032         0.506         0.614         -0.047         0.079           lang[T.other]         0.1562         0.062         2.524         0.012         0.034         0.278           No of Votes         6.211e-07         3.14e-08         19.793         0.000         5.59e-07         6.83e-07	Genre[T.Drama-Fi]	-0.0491	0.082	-0.600	0.549	-0.210	0.112
Genre[T.Family-Fi]         -0.2042         0.197         -1.036         0.301         -0.592         0.184           Genre[T.Film-Noir]         0.0370         0.222         0.167         0.868         -0.400         0.474           Genre[T.Horror]         0.1308         0.104         1.252         0.212         -0.075         0.336           Genre[T.Horror-Fi]         0.2030         0.142         1.433         0.153         -0.076         0.482           Genre[T.Mystery]         0.2583         0.103         2.497         0.013         0.055         0.462           Genre[T.Western]         0.1785         0.144         1.244         0.215         -0.104         0.461           reg[T.other]         0.0161         0.032         0.506         0.614         -0.047         0.079           lang[T.other]         0.1562         0.062         2.524         0.012         0.034         0.278           No of Votes         6.211e-07         3.14e-08         19.793         0.000         5.59e-07         6.83e-07	Genre[T.Drama-Noir]	0.0545	0.109	0.501	0.616	-0.159	0.268
Genre[T.Film-Noir]         0.0370         0.222         0.167         0.868         -0.400         0.474           Genre[T.Horror]         0.1308         0.104         1.252         0.212         -0.075         0.336           Genre[T.Horror-Fi]         0.2030         0.142         1.433         0.153         -0.076         0.482           Genre[T.Mystery]         0.2583         0.103         2.497         0.013         0.055         0.462           Genre[T.Western]         0.1785         0.144         1.244         0.215         -0.104         0.461           reg[T.other]         0.0161         0.032         0.506         0.614         -0.047         0.079           lang[T.other]         0.1562         0.062         2.524         0.012         0.034         0.278           No of Votes         6.211e-07         3.14e-08         19.793         0.000         5.59e-07         6.83e-07	Genre[T.Family]	-0.0668	0.198	-0.338	0.735	-0.456	0.322
Genre[T.Horror]         0.1308         0.104         1.252         0.212         -0.075         0.336           Genre[T.Horror-Fi]         0.2030         0.142         1.433         0.153         -0.076         0.482           Genre[T.Mystery]         0.2583         0.103         2.497         0.013         0.055         0.462           Genre[T.Western]         0.1785         0.144         1.244         0.215         -0.104         0.461           reg[T.other]         0.0161         0.032         0.506         0.614         -0.047         0.079           lang[T.other]         0.1562         0.062         2.524         0.012         0.034         0.278           No of Votes         6.211e-07         3.14e-08         19.793         0.000         5.59e-07         6.83e-07	Genre[T.Family-Fi]	-0.2042	0.197	-1.036	0.301	-0.592	0.184
Genre[T.Horror-Fi]         0.2030         0.142         1.433         0.153         -0.076         0.482           Genre[T.Mystery]         0.2583         0.103         2.497         0.013         0.055         0.462           Genre[T.Western]         0.1785         0.144         1.244         0.215         -0.104         0.461           reg[T.other]         0.0161         0.032         0.506         0.614         -0.047         0.079           lang[T.other]         0.1562         0.062         2.524         0.012         0.034         0.278           No of Votes         6.211e-07         3.14e-08         19.793         0.000         5.59e-07         6.83e-07	Genre[T.Film-Noir]	0.0370	0.222	0.167	0.868	-0.400	0.474
Genre[T.Mystery]         0.2583         0.103         2.497         0.013         0.055         0.462           Genre[T.Western]         0.1785         0.144         1.244         0.215         -0.104         0.461           reg[T.other]         0.0161         0.032         0.506         0.614         -0.047         0.079           lang[T.other]         0.1562         0.062         2.524         0.012         0.034         0.278           No of Votes         6.211e-07         3.14e-08         19.793         0.000         5.59e-07         6.83e-07	Genre[T.Horror]	0.1308	0.104	1.252	0.212	-0.075	0.336
Genre[T.Western]         0.1785         0.144         1.244         0.215         -0.104         0.461           reg[T.other]         0.0161         0.032         0.506         0.614         -0.047         0.079           lang[T.other]         0.1562         0.062         2.524         0.012         0.034         0.278           No of Votes         6.211e-07         3.14e-08         19.793         0.000         5.59e-07         6.83e-07	Genre[T.Horror-Fi]	0.2030	0.142	1.433	0.153	-0.076	0.482
reg[T.other]         0.0161         0.032         0.506         0.614         -0.047         0.079           lang[T.other]         0.1562         0.062         2.524         0.012         0.034         0.278           No of Votes         6.211e-07         3.14e-08         19.793         0.000         5.59e-07         6.83e-07	Genre[T.Mystery]	0.2583	0.103	2.497	0.013	0.055	0.462
lang[T.other]	Genre[T.Western]	0.1785	0.144	1.244	0.215	-0.104	0.461
No of Votes 6.211e-07 3.14e-08 19.793 0.000 5.59e-07 6.83e-07	reg[T.other]	0.0161	0.032	0.506	0.614	-0.047	0.079
	lang[T.other]	0.1562	0.062	2.524	0.012	0.034	0.278
Runtime 0.0011 0.000 2.691 0.008 0.000 0.002	No of Votes	6.211e-07	3.14e-08	19.793	0.000	5.59e-07	6.83e-07
	Runtime	0.0011	0.000	2.691	0.008	0.000	0.002

#### MLR Gross Revenue

Dep. Variable:	Gross	R-squared:	0.570	
Model:	OLS	Adj. R-squared:	0.520	
Method:	Least Squares	F-statistic:	11.29	
Date:	Thu, 09 Feb 2023	Prob (F-statistic):	5.34e-34	
Time:	13:11:59	Log-Likelihood:	-5935.1	
No. Observations:	305	AIC:	1.194e+04	
Df Residuals:	272	BIC:	1.206e+04	
Df Model:	32			
Covariance Type:	nonrobust	Rmse: 68		

#### **Independent variables:**

- Certificate
- Genre
- Country of origin
- Language
- Number of votes
- Runtime

	coef	std err	t	P> t	[0.025	0.975]
Intercept	-6.7955	25.018	-0.272	0.786	-56.048	42.457
Certificate[T.Approved]	-10.7304	38.876	-0.276	0.783	-87.267	65.806
Certificate[T.G]	-14.9569	36.060	-0.415	0.679	-85.949	56.035
Certificate[T.PG]	16.9377	25.822	0.656	0.512	-33.898	67.774
Certificate[T.PG-13]	50.6799	38.797	1.306	0.193	-25.702	127.061
Certificate[T.Passed]	-9.1282	20.350	-0.449	0.654	-49.192	30.936
Certificate[T.R]	5.7512	14.288	0.403	0.688	-22.378	33.880
Certificate[T.U]	35.1531	12.894	2.726	0.007	9.769	60.538
Certificate[T.UA]	75.9062	13.851	5.480	0.000	48.638	103.174
Genre[T.Action-Fi]	-56.2506	27.922	-2.015	0.045	-111.221	-1.280
Genre[T.Adventure]	-83.7043	20.054	-4.174	0.000	-123.185	-44.224
Genre[T.Adventure-Fi]	-63.5437	35.420	-1.794	0.074	-133.275	6.188
Genre[T.Animation]	109.9653	30.208	3.640	0.000	50.494	169.436
Genre[T.Animation-Fi]	-113.8960	76.871	-1.482	0.140	-265.233	37.441
Genre[T.Biography]	-70.6013	19.430	-3.634	0.000	-108.855	-32.348
Genre[T.Comedy]	-62.0522	17.265	-3.594	0.000	-96.042	-28.062
Genre[T.Crime]	-102.3178	19.245	-5.317	0.000	-140.205	-64.430
Genre[T.Crime-Fi]	-129.7244	74.644	-1.738	0.083	-276.677	17.228
Genre[T.Crime-Noir]	-75.7791	40.721	-1.861	0.064	-155.948	4.390
Genre[T.Drama]	-72.0123	15.647	-4.602	0.000	-102.818	-41.207
Genre[T.Drama-Fi]	-84.7379	30.817	-2.750	0.006	-145.408	-24.068
Genre[T.Drama-Noir]	-59.0836	40.934	-1.443	0.150	-139.672	21.504
Genre[T.Family]	-108.3489	74.451	-1.455	0.147	-254.922	38.224
Genre[T.Family-Fi]	293.4017	74.271	3.950	0.000	147.182	439.621
Genre[T.Film-Noir]	-43.4619	83.625	-0.520	0.604	-208.096	121.172
Genre[T.Horror]	-15.0435	39.359	-0.382	0.703	-92.531	62.444
Genre[T.Horror-Fi]	-70.9620	53.403	-1.329	0.185	-176.097	34.173
Genre[T.Mystery]	-138.5482	38.971	-3.555	0.000	-215.271	-61.826
Genre[T.Western]	-83.2308	54.099	-1.538	0.125	-189.737	23.275
reg[T.other]	-23.1882	12.015	-1.930	0.055	-46.843	0.466
lang[T.other]	-29.9291	23.308	-1.284	0.200	-75.815	15.957
No_of_Votes	0.0001	1.18e-05	8.491	0.000	7.71e-05	0.000
Runtime	0.6605	0.159	4.161	0.000	0.348	0.973