

```

GET
  FILE='\\Client\D$\F\UnivSub\UNC\masterpaper\analysis\SPSS\cotrack10d_0323
.sav'.
DATASET NAME DataSet1 WINDOW=FRONT.
REGRESSION
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT cooccurcount
  /METHOD=STEPWISE tempo mood artist artist_era artist_originartist_gender
album_title album_year
  album_year_d genre toptags5 toptags_normlisteners_normlisteners_norm_
d playcount_norm
  playcount_norm_d

```

## Regression

[DataSet1] \\Client\D\$\F\UnivSub\UNC\masterpaper\analysis\SPSS\cotrack10d\_0323.sav

**Variables Entered/Removed<sup>a</sup>**

| Model | Variables Entered | Variables Removed | Method  |
|-------|-------------------|-------------------|---|
| 1     | album_title       | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 2     | listeners_norm    | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |

### Variables Entered/Removed<sup>a</sup>

| Model | Variables Entered | Variables Removed | Method  |
|-------|-------------------|-------------------|---|
| 3     | genre             | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 4     | listeners_norm_d  | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 5     | artist            | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 6     | album_year_d      | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 7     | artist_gender     | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |

### Variables Entered/Removed<sup>a</sup>

| Model | Variables Entered | Variables Removed | Method  |
|-------|-------------------|-------------------|---|
| 8     | artist_origin     | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 9     | artist_era        | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 10    | toptags_norm      | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 11    | album_year        | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 12    | mood              | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 13    | playcount_norm    | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |

a. Dependent Variable: cooccurcount

### Model Summary

| Model | R                 | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1     | .648 <sup>a</sup> | .420     | .419              | 19.782                     |
| 2     | .685 <sup>b</sup> | .470     | .470              | 18.908                     |
| 3     | .696 <sup>c</sup> | .484     | .484              | 18.645                     |
| 4     | .702 <sup>d</sup> | .493     | .493              | 18.489                     |
| 5     | .708 <sup>e</sup> | .501     | .501              | 18.342                     |
| 6     | .713 <sup>f</sup> | .509     | .509              | 18.193                     |
| 7     | .716 <sup>g</sup> | .513     | .513              | 18.120                     |
| 8     | .718 <sup>h</sup> | .515     | .515              | 18.075                     |
| 9     | .719 <sup>i</sup> | .517     | .517              | 18.051                     |
| 10    | .720 <sup>j</sup> | .518     | .518              | 18.029                     |
| 11    | .720 <sup>k</sup> | .519     | .519              | 18.010                     |
| 12    | .721 <sup>l</sup> | .519     | .519              | 18.005                     |
| 13    | .721 <sup>m</sup> | .519     | .519              | 18.003                     |

- a. Predictors: (Constant), album\_title
- b. Predictors: (Constant), album\_title, listeners\_norm
- c. Predictors: (Constant), album\_title, listeners\_norm, genre
- d. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d
- e. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist
- f. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d
- g. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender
- h. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin
- i. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era
- j. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era, toptags\_norm
- k. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era, toptags\_norm, album\_year
- l. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era, toptags\_norm, album\_year, mood
- m. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era, toptags\_norm, album\_year, mood, playcount\_norm

### ANOVA<sup>a</sup>

| Model |            | Sum of Squares | df    | Mean Square | F         | Sig.              |
|-------|------------|----------------|-------|-------------|-----------|-------------------|
| 1     | Regression | 12127196.91    | 1     | 12127196.91 | 30991.148 | .000 <sup>b</sup> |
|       | Residual   | 16781399.64    | 42885 | 391.312     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 2     | Regression | 13577718.97    | 2     | 6788859.487 | 18990.006 | .000 <sup>c</sup> |
|       | Residual   | 15330877.58    | 42884 | 357.496     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 3     | Regression | 14001017.23    | 3     | 4667005.745 | 13425.064 | .000 <sup>d</sup> |
|       | Residual   | 14907579.32    | 42883 | 347.634     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 4     | Regression | 14249357.19    | 4     | 3562339.298 | 10420.748 | .000 <sup>e</sup> |
|       | Residual   | 14659239.36    | 42882 | 341.851     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 5     | Regression | 14482840.58    | 5     | 2896568.115 | 8610.137  | .000 <sup>f</sup> |
|       | Residual   | 14425755.98    | 42881 | 336.414     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 6     | Regression | 14716326.68    | 6     | 2452721.114 | 7410.561  | .000 <sup>g</sup> |
|       | Residual   | 14192269.87    | 42880 | 330.976     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 7     | Regression | 14830685.14    | 7     | 2118669.305 | 6453.118  | .000 <sup>h</sup> |
|       | Residual   | 14077911.42    | 42879 | 328.317     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 8     | Regression | 14899614.88    | 8     | 1862451.860 | 5700.501  | .000 <sup>i</sup> |
|       | Residual   | 14008981.67    | 42878 | 326.717     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 9     | Regression | 14938228.25    | 9     | 1659803.139 | 5094.166  | .000 <sup>j</sup> |
|       | Residual   | 13970368.31    | 42877 | 325.824     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 10    | Regression | 14972087.95    | 10    | 1497208.795 | 4606.198  | .000 <sup>k</sup> |
|       | Residual   | 13936508.61    | 42876 | 325.042     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |

## ANOVA<sup>a</sup>

| Model |            | Sum of Squares | df    | Mean Square | F        | Sig.              |
|-------|------------|----------------|-------|-------------|----------|-------------------|
| 11    | Regression | 15002056.41    | 11    | 1363823.310 | 4204.779 | .000 <sup>l</sup> |
|       | Residual   | 13906540.15    | 42875 | 324.351     |          |                   |
|       | Total      | 28908596.55    | 42886 |             |          |                   |
| 12    | Regression | 15009872.88    | 12    | 1250822.740 | 3858.468 | .000 <sup>m</sup> |
|       | Residual   | 13898723.67    | 42874 | 324.176     |          |                   |
|       | Total      | 28908596.55    | 42886 |             |          |                   |
| 13    | Regression | 15013126.51    | 13    | 1154855.886 | 3563.185 | .000 <sup>n</sup> |
|       | Residual   | 13895470.04    | 42873 | 324.108     |          |                   |
|       | Total      | 28908596.55    | 42886 |             |          |                   |

a. Dependent Variable: cooccurcount

b. Predictors: (Constant), album\_title

c. Predictors: (Constant), album\_title, listeners\_norm

d. Predictors: (Constant), album\_title, listeners\_norm, genre

e. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d

f. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist

g. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d

h. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender

i. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin

j. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era

k. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era, toptags\_norm

l. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era, toptags\_norm, album\_year

m. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era, toptags\_norm, album\_year, mood

n. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era, toptags\_norm, album\_year, mood, playcount\_norm

### Coefficients<sup>a</sup>

| Model |                  | Unstandardized Coefficients |            | Standardized Coefficients | t       | Sig. |
|-------|------------------|-----------------------------|------------|---------------------------|---------|------|
|       |                  | B                           | Std. Error | Beta                      |         |      |
| 1     | (Constant)       | 22.463                      | .097       |                           | 231.245 | .000 |
|       | album_title      | 94.047                      | .534       | .648                      | 176.043 | .000 |
| 2     | (Constant)       | 8.819                       | .233       |                           | 37.777  | .000 |
|       | album_title      | 96.873                      | .513       | .667                      | 189.004 | .000 |
|       | listeners_norm   | .000                        | .000       | .225                      | 63.698  | .000 |
| 3     | (Constant)       | 5.089                       | .254       |                           | 20.050  | .000 |
|       | album_title      | 90.657                      | .536       | .624                      | 169.167 | .000 |
|       | listeners_norm   | .000                        | .000       | .244                      | 69.171  | .000 |
|       | genre            | 3.095                       | .089       | .130                      | 34.895  | .000 |
| 4     | (Constant)       | 2.517                       | .269       |                           | 9.349   | .000 |
|       | album_title      | 91.505                      | .532       | .630                      | 171.887 | .000 |
|       | listeners_norm   | .000                        | .000       | .236                      | 67.270  | .000 |
|       | genre            | 3.428                       | .089       | .144                      | 38.599  | .000 |
|       | listeners_norm_d | 5.518E-5                    | .000       | .095                      | 26.953  | .000 |
| 5     | (Constant)       | 2.620                       | .267       |                           | 9.809   | .000 |
|       | album_title      | 78.599                      | .720       | .541                      | 109.115 | .000 |
|       | listeners_norm   | .000                        | .000       | .235                      | 67.569  | .000 |
|       | genre            | 2.737                       | .092       | .115                      | 29.780  | .000 |
|       | listeners_norm_d | 5.711E-5                    | .000       | .098                      | 28.098  | .000 |
|       | artist           | 14.821                      | .563       | .137                      | 26.345  | .000 |
| 6     | (Constant)       | 4.122                       | .271       |                           | 15.218  | .000 |
|       | album_title      | 75.413                      | .724       | .519                      | 104.092 | .000 |
|       | listeners_norm   | .000                        | .000       | .224                      | 64.403  | .000 |
|       | genre            | 2.642                       | .091       | .111                      | 28.956  | .000 |
|       | listeners_norm_d | 6.525E-5                    | .000       | .112                      | 32.001  | .000 |
|       | artist           | 17.157                      | .565       | .158                      | 30.371  | .000 |
|       | album_year_d     | -.443                       | .017       | -.093                     | -26.560 | .000 |
| 7     | (Constant)       | 2.138                       | .290       |                           | 7.372   | .000 |
|       | album_title      | 75.411                      | .722       | .519                      | 104.510 | .000 |
|       | listeners_norm   | .000                        | .000       | .231                      | 66.342  | .000 |
|       | genre            | 2.469                       | .091       | .104                      | 27.022  | .000 |
|       | listeners_norm_d | 6.566E-5                    | .000       | .113                      | 32.329  | .000 |
|       | artist           | 16.000                      | .566       | .148                      | 28.266  | .000 |
|       | album_year_d     | -.482                       | .017       | -.101                     | -28.801 | .000 |
|       | artist_gender    | 1.812                       | .097       | .066                      | 18.663  | .000 |
| 8     | (Constant)       | .696                        | .306       |                           | 2.275   | .023 |
|       | album_title      | 75.402                      | .720       | .519                      | 104.753 | .000 |

## Coefficients<sup>a</sup>

| Model |                  | 95.0% Confidence Interval for B |             |
|-------|------------------|---------------------------------|-------------|
|       |                  | Lower Bound                     | Upper Bound |
| 1     | (Constant)       | 22.273                          | 22.654      |
|       | album_title      | 93.000                          | 95.094      |
| 2     | (Constant)       | 8.362                           | 9.277       |
|       | album_title      | 95.868                          | 97.878      |
|       | listeners_norm   | .000                            | .000        |
| 3     | (Constant)       | 4.592                           | 5.587       |
|       | album_title      | 89.606                          | 91.707      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 2.921                           | 3.269       |
| 4     | (Constant)       | 1.989                           | 3.044       |
|       | album_title      | 90.461                          | 92.548      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 3.254                           | 3.602       |
|       | listeners_norm_d | .000                            | .000        |
| 5     | (Constant)       | 2.096                           | 3.143       |
|       | album_title      | 77.187                          | 80.011      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 2.557                           | 2.918       |
|       | listeners_norm_d | .000                            | .000        |
|       | artist           | 13.719                          | 15.924      |
| 6     | (Constant)       | 3.591                           | 4.653       |
|       | album_title      | 73.993                          | 76.833      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 2.463                           | 2.821       |
|       | listeners_norm_d | .000                            | .000        |
|       | artist           | 16.050                          | 18.264      |
|       | album_year_d     | -.475                           | -.410       |
| 7     | (Constant)       | 1.569                           | 2.706       |
|       | album_title      | 73.997                          | 76.825      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 2.290                           | 2.648       |
|       | listeners_norm_d | .000                            | .000        |
|       | artist           | 14.891                          | 17.110      |
|       | album_year_d     | -.515                           | -.449       |
| 8     | (Constant)       | 1.622                           | 2.002       |
|       | artist_gender    |                                 |             |
|       | album_title      | 73.991                          | 76.813      |

### Coefficients<sup>a</sup>

| Model |                  | Unstandardized Coefficients |            | Standardized Coefficients | t       | Sig. |
|-------|------------------|-----------------------------|------------|---------------------------|---------|------|
|       |                  | B                           | Std. Error | Beta                      |         |      |
|       | listeners_norm   | .000                        | .000       | .239                      | 67.951  | .000 |
|       | genre            | 2.314                       | .092       | .097                      | 25.216  | .000 |
|       | listeners_norm_d | 6.629E-5                    | .000       | .114                      | 32.709  | .000 |
|       | artist           | 13.889                      | .583       | .128                      | 23.820  | .000 |
|       | album_year_d     | -.479                       | .017       | -.101                     | -28.725 | .000 |
|       | artist_gender    | 1.668                       | .097       | .061                      | 17.139  | .000 |
|       | artist_origin    | 1.079                       | .074       | .056                      | 14.525  | .000 |
| 9     | (Constant)       | -.373                       | .321       |                           | -1.162  | .245 |
|       | album_title      | 75.766                      | .720       | .522                      | 105.289 | .000 |
|       | listeners_norm   | .000                        | .000       | .235                      | 66.378  | .000 |
|       | genre            | 2.267                       | .092       | .095                      | 24.717  | .000 |
|       | listeners_norm_d | 6.565E-5                    | .000       | .113                      | 32.424  | .000 |
|       | artist           | 12.698                      | .592       | .117                      | 21.433  | .000 |
|       | album_year_d     | -.431                       | .017       | -.090                     | -24.985 | .000 |
|       | artist_gender    | 1.700                       | .097       | .062                      | 17.475  | .000 |
|       | artist_origin    | 1.108                       | .074       | .058                      | 14.927  | .000 |
|       | artist_era       | 1.911                       | .176       | .039                      | 10.886  | .000 |
| 10    | (Constant)       | -.824                       | .323       |                           | -2.548  | .011 |
|       | album_title      | 75.531                      | .719       | .520                      | 105.034 | .000 |
|       | listeners_norm   | .000                        | .000       | .231                      | 64.967  | .000 |
|       | genre            | 2.122                       | .093       | .089                      | 22.886  | .000 |
|       | listeners_norm_d | 6.766E-5                    | .000       | .116                      | 33.300  | .000 |
|       | artist           | 12.230                      | .594       | .113                      | 20.607  | .000 |
|       | album_year_d     | -.456                       | .017       | -.096                     | -26.184 | .000 |
|       | artist_gender    | 1.596                       | .098       | .058                      | 16.346  | .000 |
|       | artist_origin    | 1.099                       | .074       | .057                      | 14.828  | .000 |
|       | artist_era       | 1.915                       | .175       | .039                      | 10.927  | .000 |
|       | toptags_norm     | 7.332                       | .718       | .037                      | 10.206  | .000 |
| 11    | (Constant)       | -438.745                    | 45.560     |                           | -9.630  | .000 |
|       | album_title      | 75.319                      | .719       | .519                      | 104.802 | .000 |
|       | listeners_norm   | .000                        | .000       | .223                      | 61.161  | .000 |
|       | genre            | 2.065                       | .093       | .087                      | 22.256  | .000 |
|       | listeners_norm_d | 6.441E-5                    | .000       | .111                      | 31.300  | .000 |
|       | artist           | 11.827                      | .594       | .109                      | 19.898  | .000 |
|       | album_year_d     | -.316                       | .023       | -.066                     | -13.919 | .000 |
|       | artist_gender    | 1.694                       | .098       | .062                      | 17.271  | .000 |
|       | artist_origin    | 1.112                       | .074       | .058                      | 15.013  | .000 |

## Coefficients<sup>a</sup>

| Model |                  | 95.0% Confidence Interval for B |             |
|-------|------------------|---------------------------------|-------------|
|       |                  | Lower Bound                     | Upper Bound |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 2.134                           | 2.494       |
|       | listeners_norm_d | .000                            | .000        |
|       | artist           | 12.746                          | 15.032      |
|       | album_year_d     | -.512                           | -.447       |
|       | artist_gender    | 1.478                           | 1.859       |
|       | artist_origin    | .933                            | 1.224       |
| 9     | (Constant)       | -1.001                          | .256        |
|       | album_title      | 74.356                          | 77.177      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 2.088                           | 2.447       |
|       | listeners_norm_d | .000                            | .000        |
|       | artist           | 11.537                          | 13.860      |
|       | album_year_d     | -.465                           | -.397       |
|       | artist_gender    | 1.509                           | 1.890       |
|       | artist_origin    | .962                            | 1.253       |
|       | artist_era       | 1.567                           | 2.255       |
| 10    | (Constant)       | -1.458                          | -.190       |
|       | album_title      | 74.121                          | 76.940      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 1.940                           | 2.304       |
|       | listeners_norm_d | .000                            | .000        |
|       | artist           | 11.067                          | 13.394      |
|       | album_year_d     | -.490                           | -.421       |
|       | artist_gender    | 1.405                           | 1.788       |
|       | artist_origin    | .954                            | 1.244       |
|       | artist_era       | 1.572                           | 2.259       |
|       | toptags_norm     | 5.924                           | 8.740       |
| 11    | (Constant)       | -528.043                        | -349.447    |
|       | album_title      | 73.911                          | 76.728      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 1.884                           | 2.247       |
|       | listeners_norm_d | .000                            | .000        |
|       | artist           | 10.662                          | 12.992      |
|       | album_year_d     | -.360                           | -.271       |
|       | artist_gender    | 1.502                           | 1.886       |
|       | artist_origin    | .967                            | 1.257       |

### Coefficients<sup>a</sup>

| Model |                  | Unstandardized Coefficients |            | Standardized Coefficients | t       | Sig. |
|-------|------------------|-----------------------------|------------|---------------------------|---------|------|
|       |                  | B                           | Std. Error | Beta                      |         |      |
| 12    | artist_era       | 1.875                       | .175       | .039                      | 10.702  | .000 |
|       | toptags_norm     | 11.294                      | .828       | .057                      | 13.647  | .000 |
|       | album_year       | .217                        | .023       | .051                      | 9.612   | .000 |
|       | (Constant)       | -434.045                    | 45.558     |                           | -9.527  | .000 |
|       | album_title      | 75.226                      | .719       | .518                      | 104.664 | .000 |
|       | listeners_norm   | .000                        | .000       | .223                      | 61.317  | .000 |
|       | genre            | 2.038                       | .093       | .086                      | 21.925  | .000 |
|       | listeners_norm_d | 6.450E-5                    | .000       | .111                      | 31.355  | .000 |
|       | artist           | 11.787                      | .594       | .109                      | 19.835  | .000 |
|       | album_year_d     | -.315                       | .023       | -.066                     | -13.885 | .000 |
|       | artist_gender    | 1.692                       | .098       | .062                      | 17.254  | .000 |
|       | artist_origin    | 1.107                       | .074       | .058                      | 14.955  | .000 |
|       | artist_era       | 1.865                       | .175       | .038                      | 10.650  | .000 |
|       | toptags_norm     | 11.142                      | .828       | .056                      | 13.458  | .000 |
|       | album_year       | .215                        | .023       | .050                      | 9.506   | .000 |
|       | mood             | .836                        | .170       | .017                      | 4.910   | .000 |
| 13    | (Constant)       | -437.443                    | 45.565     |                           | -9.600  | .000 |
|       | album_title      | 75.268                      | .719       | .518                      | 104.716 | .000 |
|       | listeners_norm   | .000                        | .000       | .205                      | 29.811  | .000 |
|       | genre            | 2.037                       | .093       | .086                      | 21.915  | .000 |
|       | listeners_norm_d | 6.445E-5                    | .000       | .111                      | 31.332  | .000 |
|       | artist           | 11.742                      | .594       | .108                      | 19.755  | .000 |
|       | album_year_d     | -.318                       | .023       | -.067                     | -14.014 | .000 |
|       | artist_gender    | 1.684                       | .098       | .061                      | 17.166  | .000 |
|       | artist_origin    | 1.122                       | .074       | .058                      | 15.126  | .000 |
|       | artist_era       | 1.859                       | .175       | .038                      | 10.618  | .000 |
|       | toptags_norm     | 10.979                      | .829       | .055                      | 13.236  | .000 |
|       | album_year       | .217                        | .023       | .051                      | 9.584   | .000 |
|       | mood             | .851                        | .170       | .017                      | 4.995   | .000 |
|       | playcount_norm   | 1.606E-6                    | .000       | .021                      | 3.168   | .002 |

## Coefficients<sup>a</sup>

| Model |                  | 95.0% Confidence Interval for B |             |
|-------|------------------|---------------------------------|-------------|
|       |                  | Lower Bound                     | Upper Bound |
| 12    | artist_era       | 1.531                           | 2.218       |
|       | toptags_norm     | 9.672                           | 12.916      |
|       | album_year       | .173                            | .262        |
|       | (Constant)       | -523.339                        | -344.752    |
|       | album_title      | 73.817                          | 76.635      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 1.856                           | 2.220       |
|       | listeners_norm_d | .000                            | .000        |
|       | artist           | 10.622                          | 12.952      |
|       | album_year_d     | -.359                           | -.270       |
|       | artist_gender    | 1.500                           | 1.884       |
|       | artist_origin    | .962                            | 1.252       |
|       | artist_era       | 1.522                           | 2.208       |
|       | toptags_norm     | 9.519                           | 12.765      |
|       | album_year       | .171                            | .259        |
|       | mood             | .502                            | 1.170       |
| 13    | (Constant)       | -526.752                        | -348.134    |
|       | album_title      | 73.859                          | 76.677      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 1.855                           | 2.219       |
|       | listeners_norm_d | .000                            | .000        |
|       | artist           | 10.577                          | 12.907      |
|       | album_year_d     | -.362                           | -.273       |
|       | artist_gender    | 1.491                           | 1.876       |
|       | artist_origin    | .977                            | 1.267       |
|       | artist_era       | 1.516                           | 2.203       |
|       | toptags_norm     | 9.353                           | 12.605      |
|       | album_year       | .172                            | .261        |
|       | mood             | .517                            | 1.184       |
|       | playcount_norm   | .000                            | .000        |

a. Dependent Variable: cooccurcount

### Excluded Variables<sup>a</sup>

| Model |                  | Beta In            | t       | Sig. | Partial Correlation | Collinearity Statistics<br>Tolerance |
|-------|------------------|--------------------|---------|------|---------------------|--------------------------------------|
| 1     | tempo            | .019 <sup>b</sup>  | 5.167   | .000 | .025                | 1.000                                |
|       | mood             | .023 <sup>b</sup>  | 6.230   | .000 | .030                | .990                                 |
|       | artist           | .159 <sup>b</sup>  | 29.983  | .000 | .143                | .474                                 |
|       | artist_era       | .108 <sup>b</sup>  | 29.235  | .000 | .140                | .978                                 |
|       | artist_origin    | .055 <sup>b</sup>  | 14.288  | .000 | .069                | .896                                 |
|       | artist_gender    | .046 <sup>b</sup>  | 12.339  | .000 | .059                | .976                                 |
|       | album_year       | .098 <sup>b</sup>  | 26.905  | .000 | .129                | .999                                 |
|       | album_year_d     | -.086 <sup>b</sup> | -23.413 | .000 | -.112               | .992                                 |
|       | genre            | .091 <sup>b</sup>  | 23.341  | .000 | .112                | .884                                 |
|       | toptags5         | .066 <sup>b</sup>  | 17.774  | .000 | .086                | .986                                 |
|       | toptags_norm     | .064 <sup>b</sup>  | 17.147  | .000 | .083                | .962                                 |
|       | listeners_norm   | .225 <sup>b</sup>  | 63.698  | .000 | .294                | .993                                 |
|       | listeners_norm_d | .099 <sup>b</sup>  | 26.846  | .000 | .129                | .986                                 |
|       | playcount_norm   | .198 <sup>b</sup>  | 55.653  | .000 | .260                | .994                                 |
|       | playcount_norm_d | .108 <sup>b</sup>  | 29.530  | .000 | .141                | .990                                 |
| 2     | tempo            | .011 <sup>c</sup>  | 3.136   | .002 | .015                | .999                                 |
|       | mood             | .033 <sup>c</sup>  | 9.278   | .000 | .045                | .988                                 |
|       | artist           | .172 <sup>c</sup>  | 34.020  | .000 | .162                | .473                                 |
|       | artist_era       | .078 <sup>c</sup>  | 21.814  | .000 | .105                | .959                                 |
|       | artist_origin    | .105 <sup>c</sup>  | 27.861  | .000 | .133                | .863                                 |
|       | artist_gender    | .081 <sup>c</sup>  | 22.523  | .000 | .108                | .955                                 |
|       | album_year       | .052 <sup>c</sup>  | 14.388  | .000 | .069                | .951                                 |
|       | album_year_d     | -.063 <sup>c</sup> | -17.828 | .000 | -.086               | .981                                 |
|       | genre            | .130 <sup>c</sup>  | 34.895  | .000 | .166                | .863                                 |
|       | toptags5         | .049 <sup>c</sup>  | 13.812  | .000 | .067                | .980                                 |
|       | toptags_norm     | .055 <sup>c</sup>  | 15.505  | .000 | .075                | .961                                 |
|       | listeners_norm_d | .076 <sup>c</sup>  | 21.421  | .000 | .103                | .975                                 |
|       | playcount_norm   | .017 <sup>c</sup>  | 2.446   | .014 | .012                | .253                                 |
|       | playcount_norm_d | .060 <sup>c</sup>  | 16.574  | .000 | .080                | .939                                 |
| 3     | tempo            | .007 <sup>d</sup>  | 2.121   | .034 | .010                | .998                                 |
|       | mood             | .023 <sup>d</sup>  | 6.505   | .000 | .031                | .981                                 |
|       | artist           | .131 <sup>d</sup>  | 25.122  | .000 | .120                | .433                                 |
|       | artist_era       | .067 <sup>d</sup>  | 18.920  | .000 | .091                | .951                                 |
|       | artist_origin    | .081 <sup>d</sup>  | 21.316  | .000 | .102                | .826                                 |

### Excluded Variables<sup>a</sup>

| Model |                  | Beta In            | t       | Sig. | Partial Correlation | Collinearity Statistics<br>Tolerance |
|-------|------------------|--------------------|---------|------|---------------------|--------------------------------------|
|       | artist_gender    | .065 <sup>d</sup>  | 18.133  | .000 | .087                | .937                                 |
|       | album_year       | .057 <sup>d</sup>  | 16.018  | .000 | .077                | .950                                 |
|       | album_year_d     | -.061 <sup>d</sup> | -17.575 | .000 | -.085               | .981                                 |
|       | toptags5         | .019 <sup>d</sup>  | 5.254   | .000 | .025                | .917                                 |
|       | toptags_norm     | .031 <sup>d</sup>  | 8.573   | .000 | .041                | .919                                 |
|       | listeners_norm_d | .095 <sup>d</sup>  | 26.953  | .000 | .129                | .956                                 |
|       | playcount_norm   | .013 <sup>d</sup>  | 1.929   | .054 | .009                | .253                                 |
|       | playcount_norm_d | .076 <sup>d</sup>  | 21.162  | .000 | .102                | .926                                 |
| 4     | tempo            | .005 <sup>e</sup>  | 1.445   | .148 | .007                | .997                                 |
|       | mood             | .024 <sup>e</sup>  | 6.944   | .000 | .034                | .981                                 |
|       | artist           | .137 <sup>e</sup>  | 26.345  | .000 | .126                | .432                                 |
|       | artist_era       | .068 <sup>e</sup>  | 19.501  | .000 | .094                | .951                                 |
|       | artist_origin    | .084 <sup>e</sup>  | 22.349  | .000 | .107                | .825                                 |
|       | artist_gender    | .064 <sup>e</sup>  | 18.188  | .000 | .087                | .937                                 |
|       | album_year       | .052 <sup>e</sup>  | 14.701  | .000 | .071                | .947                                 |
|       | album_year_d     | -.076 <sup>e</sup> | -21.868 | .000 | -.105               | .961                                 |
|       | toptags5         | .025 <sup>e</sup>  | 6.981   | .000 | .034                | .913                                 |
|       | toptags_norm     | .039 <sup>e</sup>  | 10.793  | .000 | .052                | .913                                 |
|       | playcount_norm   | .011 <sup>e</sup>  | 1.666   | .096 | .008                | .253                                 |
|       | playcount_norm_d | -.009 <sup>e</sup> | -1.379  | .168 | -.007               | .308                                 |
| 5     | tempo            | .004 <sup>f</sup>  | 1.112   | .266 | .005                | .997                                 |
|       | mood             | .022 <sup>f</sup>  | 6.458   | .000 | .031                | .980                                 |
|       | artist_era       | .057 <sup>f</sup>  | 16.213  | .000 | .078                | .933                                 |
|       | artist_origin    | .062 <sup>f</sup>  | 16.083  | .000 | .077                | .768                                 |
|       | artist_gender    | .053 <sup>f</sup>  | 15.021  | .000 | .072                | .922                                 |
|       | album_year       | .061 <sup>f</sup>  | 17.468  | .000 | .084                | .938                                 |
|       | album_year_d     | -.093 <sup>f</sup> | -26.560 | .000 | -.127               | .937                                 |
|       | toptags5         | .014 <sup>f</sup>  | 3.841   | .000 | .019                | .899                                 |
|       | toptags_norm     | .028 <sup>f</sup>  | 7.785   | .000 | .038                | .900                                 |
|       | playcount_norm   | .005 <sup>f</sup>  | .768    | .442 | .004                | .253                                 |
|       | playcount_norm_d | -.014 <sup>f</sup> | -2.287  | .022 | -.011               | .307                                 |
| 6     | tempo            | .007 <sup>g</sup>  | 2.008   | .045 | .010                | .996                                 |
|       | mood             | .020 <sup>g</sup>  | 5.785   | .000 | .028                | .980                                 |
|       | artist_era       | .035 <sup>g</sup>  | 9.663   | .000 | .047                | .869                                 |

### Excluded Variables<sup>a</sup>

| Model |                  | Beta In            | t      | Sig. | Partial Correlation | Collinearity Statistics<br>Tolerance |
|-------|------------------|--------------------|--------|------|---------------------|--------------------------------------|
|       | artist_origin    | .063 <sup>g</sup>  | 16.293 | .000 | .078                | .768                                 |
|       | artist_gender    | .066 <sup>g</sup>  | 18.663 | .000 | .090                | .907                                 |
|       | album_year       | .002 <sup>g</sup>  | .417   | .677 | .002                | .543                                 |
|       | toptags5         | .031 <sup>g</sup>  | 8.441  | .000 | .041                | .874                                 |
|       | toptags_norm     | .044 <sup>g</sup>  | 12.170 | .000 | .059                | .878                                 |
|       | playcount_norm   | .023 <sup>g</sup>  | 3.393  | .001 | .016                | .250                                 |
|       | playcount_norm_d | -.009 <sup>g</sup> | -1.407 | .159 | -.007               | .307                                 |
| 7     | tempo            | .007 <sup>h</sup>  | 2.148  | .032 | .010                | .996                                 |
|       | mood             | .019 <sup>h</sup>  | 5.693  | .000 | .027                | .980                                 |
|       | artist_era       | .037 <sup>h</sup>  | 10.329 | .000 | .050                | .868                                 |
|       | artist_origin    | .056 <sup>h</sup>  | 14.525 | .000 | .070                | .760                                 |
|       | album_year       | .015 <sup>h</sup>  | 3.152  | .002 | .015                | .532                                 |
|       | toptags5         | .025 <sup>h</sup>  | 6.774  | .000 | .033                | .867                                 |
|       | toptags_norm     | .037 <sup>h</sup>  | 10.304 | .000 | .050                | .868                                 |
|       | playcount_norm   | .019 <sup>h</sup>  | 2.817  | .005 | .014                | .250                                 |
|       | playcount_norm_d | -.011 <sup>h</sup> | -1.794 | .073 | -.009               | .307                                 |
| 8     | tempo            | .007 <sup>i</sup>  | 2.051  | .040 | .010                | .996                                 |
|       | mood             | .019 <sup>i</sup>  | 5.535  | .000 | .027                | .980                                 |
|       | artist_era       | .039 <sup>i</sup>  | 10.886 | .000 | .053                | .867                                 |
|       | album_year       | .016 <sup>i</sup>  | 3.478  | .001 | .017                | .532                                 |
|       | toptags5         | .026 <sup>i</sup>  | 7.160  | .000 | .035                | .866                                 |
|       | toptags_norm     | .037 <sup>i</sup>  | 10.163 | .000 | .049                | .868                                 |
|       | playcount_norm   | .025 <sup>i</sup>  | 3.727  | .000 | .018                | .249                                 |
|       | playcount_norm_d | -.009 <sup>i</sup> | -1.411 | .158 | -.007               | .307                                 |
| 9     | tempo            | .008 <sup>j</sup>  | 2.427  | .015 | .012                | .994                                 |
|       | mood             | .018 <sup>j</sup>  | 5.416  | .000 | .026                | .979                                 |
|       | album_year       | .015 <sup>j</sup>  | 3.240  | .001 | .016                | .531                                 |
|       | toptags5         | .024 <sup>j</sup>  | 6.790  | .000 | .033                | .865                                 |
|       | toptags_norm     | .037 <sup>j</sup>  | 10.206 | .000 | .049                | .868                                 |
|       | playcount_norm   | .024 <sup>j</sup>  | 3.637  | .000 | .018                | .249                                 |
|       | playcount_norm_d | -.008 <sup>j</sup> | -1.290 | .197 | -.006               | .306                                 |
| 10    | tempo            | .007 <sup>k</sup>  | 2.045  | .041 | .010                | .993                                 |
|       | mood             | .017 <sup>k</sup>  | 5.112  | .000 | .025                | .978                                 |
|       | album_year       | .051 <sup>k</sup>  | 9.612  | .000 | .046                | .400                                 |

### Excluded Variables<sup>a</sup>

| Model |                  | Beta In            | t      | Sig. | Partial Correlation | Collinearity Statistics Tolerance |
|-------|------------------|--------------------|--------|------|---------------------|-----------------------------------|
| 11    | toptags5         | .002 <sup>k</sup>  | .472   | .637 | .002                | .522                              |
|       | playcount_norm   | .019 <sup>k</sup>  | 2.781  | .005 | .013                | .247                              |
|       | playcount_norm_d | -.010 <sup>k</sup> | -1.685 | .092 | -.008               | .306                              |
|       | tempo            | .008 <sup>l</sup>  | 2.251  | .024 | .011                | .993                              |
|       | mood             | .017 <sup>l</sup>  | 4.910  | .000 | .024                | .978                              |
|       | toptags5         | .010 <sup>l</sup>  | 2.096  | .036 | .010                | .508                              |
| 12    | playcount_norm   | .020 <sup>l</sup>  | 3.034  | .002 | .015                | .247                              |
|       | playcount_norm_d | -.010 <sup>l</sup> | -1.643 | .100 | -.008               | .306                              |
|       | tempo            | .006 <sup>m</sup>  | 1.700  | .089 | .008                | .979                              |
|       | toptags5         | .010 <sup>m</sup>  | 2.064  | .039 | .010                | .508                              |
| 13    | playcount_norm   | .021 <sup>m</sup>  | 3.168  | .002 | .015                | .247                              |
|       | playcount_norm_d | -.010 <sup>m</sup> | -1.611 | .107 | -.008               | .306                              |
|       | tempo            | .006 <sup>n</sup>  | 1.721  | .085 | .008                | .979                              |
|       | toptags5         | .007 <sup>n</sup>  | 1.486  | .137 | .007                | .489                              |
|       | playcount_norm_d | -.011 <sup>n</sup> | -1.758 | .079 | -.008               | .305                              |

a. Dependent Variable: cooccurcount

b. Predictors in the Model: (Constant), album\_title

c. Predictors in the Model: (Constant), album\_title, listeners\_norm

d. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre

e. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d

f. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist

g. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d

h. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender

i. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin

j. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era

k. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era, toptags\_norm

l. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era, toptags\_norm, album\_year

m. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era, toptags\_norm, album\_year, mood

n. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist,

```

REGRESSION
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT cooccurcount
  /METHOD=STEPWISE artist artist_era artist_originalalbum_title genre.

```

## Regression

**Variables Entered/Removed<sup>a</sup>**

| Model | Variables Entered | Variables Removed | Method  |
|-------|-------------------|-------------------|---|
| 1     | album_title       | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 2     | artist            | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 3     | artist_era        | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |

### Variables Entered/Removed<sup>a</sup>

| Model | Variables Entered | Variables Removed | Method  |
|-------|-------------------|-------------------|---|
| 4     | genre             | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 5     | artist_origin     | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |

a. Dependent Variable: cooccurcount

### Model Summary

| Model | R                 | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1     | .648 <sup>a</sup> | .420     | .419              | 19.782                     |
| 2     | .657 <sup>b</sup> | .431     | .431              | 19.578                     |
| 3     | .663 <sup>c</sup> | .440     | .440              | 19.434                     |
| 4     | .665 <sup>d</sup> | .443     | .443              | 19.385                     |
| 5     | .665 <sup>e</sup> | .443     | .443              | 19.380                     |

a. Predictors: (Constant), album\_title

b. Predictors: (Constant), album\_title, artist

c. Predictors: (Constant), album\_title, artist, artist\_era

d. Predictors: (Constant), album\_title, artist, artist\_era, genre

e. Predictors: (Constant), album\_title, artist, artist\_era, genre, artist\_origin

# ANOVA<sup>a</sup>

| Model |            | Sum of Squares | df    | Mean Square | F         | Sig.              |
|-------|------------|----------------|-------|-------------|-----------|-------------------|
| 1     | Regression | 12127196.91    | 1     | 12127196.91 | 30991.148 | .000 <sup>b</sup> |
|       | Residual   | 16781399.64    | 42885 | 391.312     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 2     | Regression | 12471772.05    | 2     | 6235886.027 | 16269.550 | .000 <sup>c</sup> |
|       | Residual   | 16436824.50    | 42884 | 383.286     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 3     | Regression | 12712498.20    | 3     | 4237499.399 | 11219.782 | .000 <sup>d</sup> |
|       | Residual   | 16196098.36    | 42883 | 377.681     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 4     | Regression | 12794262.29    | 4     | 3198565.572 | 8511.732  | .000 <sup>e</sup> |
|       | Residual   | 16114334.27    | 42882 | 375.783     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 5     | Regression | 12802513.95    | 5     | 2560502.789 | 6817.109  | .000 <sup>f</sup> |
|       | Residual   | 16106082.61    | 42881 | 375.600     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |

a. Dependent Variable: cooccurcount

b. Predictors: (Constant), album\_title

c. Predictors: (Constant), album\_title, artist

d. Predictors: (Constant), album\_title, artist, artist\_era

e. Predictors: (Constant), album\_title, artist, artist\_era, genre

f. Predictors: (Constant), album\_title, artist, artist\_era, genre, artist\_origin

### Coefficients<sup>a</sup>

| Model |               | Unstandardized Coefficients |            | Standardized Coefficients | t       | Sig. |
|-------|---------------|-----------------------------|------------|---------------------------|---------|------|
|       |               | B                           | Std. Error | Beta                      |         |      |
| 1     | (Constant)    | 22.463                      | .097       |                           | 231.245 | .000 |
|       | album_title   | 94.047                      | .534       | .648                      | 176.043 | .000 |
| 2     | (Constant)    | 21.966                      | .098       |                           | 225.148 | .000 |
|       | album_title   | 77.348                      | .768       | .533                      | 100.724 | .000 |
|       | artist        | 17.196                      | .574       | .159                      | 29.983  | .000 |
| 3     | (Constant)    | 19.083                      | .150       |                           | 127.442 | .000 |
|       | album_title   | 77.426                      | .762       | .533                      | 101.570 | .000 |
|       | artist        | 15.030                      | .576       | .139                      | 26.105  | .000 |
|       | artist_era    | 4.542                       | .180       | .093                      | 25.246  | .000 |
| 4     | (Constant)    | 18.026                      | .166       |                           | 108.817 | .000 |
|       | album_title   | 76.998                      | .761       | .530                      | 101.189 | .000 |
|       | artist        | 12.483                      | .600       | .115                      | 20.816  | .000 |
|       | artist_era    | 4.470                       | .180       | .092                      | 24.897  | .000 |
|       | genre         | 1.407                       | .095       | .059                      | 14.751  | .000 |
| 5     | (Constant)    | 17.645                      | .184       |                           | 95.666  | .000 |
|       | album_title   | 76.981                      | .761       | .530                      | 101.190 | .000 |
|       | artist        | 11.710                      | .622       | .108                      | 18.832  | .000 |
|       | artist_era    | 4.523                       | .180       | .093                      | 25.149  | .000 |
|       | genre         | 1.336                       | .097       | .056                      | 13.842  | .000 |
|       | artist_origin | .367                        | .078       | .019                      | 4.687   | .000 |

## Coefficients<sup>a</sup>

| Model |               | 95.0% Confidence Interval for B |             |
|-------|---------------|---------------------------------|-------------|
|       |               | Lower Bound                     | Upper Bound |
| 1     | (Constant)    | 22.273                          | 22.654      |
|       | album_title   | 93.000                          | 95.094      |
| 2     | (Constant)    | 21.774                          | 22.157      |
|       | album_title   | 75.843                          | 78.853      |
|       | artist        | 16.072                          | 18.320      |
| 3     | (Constant)    | 18.789                          | 19.376      |
|       | album_title   | 75.932                          | 78.920      |
|       | artist        | 13.901                          | 16.158      |
|       | artist_era    | 4.189                           | 4.895       |
| 4     | (Constant)    | 17.701                          | 18.350      |
|       | album_title   | 75.507                          | 78.489      |
|       | artist        | 11.308                          | 13.658      |
|       | artist_era    | 4.118                           | 4.821       |
|       | genre         | 1.220                           | 1.594       |
| 5     | (Constant)    | 17.284                          | 18.007      |
|       | album_title   | 75.489                          | 78.472      |
|       | artist        | 10.491                          | 12.929      |
|       | artist_era    | 4.170                           | 4.875       |
|       | genre         | 1.147                           | 1.526       |
|       | artist_origin | .213                            | .520        |

a. Dependent Variable: cooccurcount

### Excluded Variables<sup>a</sup>

| Model |               | Beta In           | t      | Sig. | Partial Correlation | Collinearity Statistics Tolerance |
|-------|---------------|-------------------|--------|------|---------------------|-----------------------------------|
| 1     | artist        | .159 <sup>b</sup> | 29.983 | .000 | .143                | .474                              |
|       | artist_era    | .108 <sup>b</sup> | 29.235 | .000 | .140                | .978                              |
|       | artist_origin | .055 <sup>b</sup> | 14.288 | .000 | .069                | .896                              |
|       | genre         | .091 <sup>b</sup> | 23.341 | .000 | .112                | .884                              |
| 2     | artist_era    | .093 <sup>c</sup> | 25.246 | .000 | .121                | .956                              |
|       | artist_origin | .022 <sup>c</sup> | 5.399  | .000 | .026                | .810                              |
|       | genre         | .062 <sup>c</sup> | 15.328 | .000 | .074                | .807                              |
| 3     | artist_origin | .028 <sup>d</sup> | 6.917  | .000 | .033                | .808                              |
|       | genre         | .059 <sup>d</sup> | 14.751 | .000 | .071                | .806                              |
| 4     | artist_origin | .019 <sup>e</sup> | 4.687  | .000 | .023                | .788                              |

a. Dependent Variable: cooccurcount

b. Predictors in the Model: (Constant), album\_title

c. Predictors in the Model: (Constant), album\_title, artist

d. Predictors in the Model: (Constant), album\_title, artist, artist\_era

e. Predictors in the Model: (Constant), album\_title, artist, artist\_era, genre

### REGRESSION

```

/MISSING LISTWISE
/STATISTICS COEFF OUTS CI(95) R ANOVA
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT cooccurcount
/METHOD=STEPWISE artist artist_origin artist_gender album_title album_year_d
genre listeners_norm
playcount_norm_d

```

### Regression

### Variables Entered/Removed<sup>a</sup>

| Model | Variables Entered | Variables Removed | Method  |
|-------|-------------------|-------------------|---|
| 1     | album_title       | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 2     | listeners_norm    | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 3     | genre             | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 4     | artist            | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 5     | album_year_d      | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |

### Variables Entered/Removed<sup>a</sup>

| Model | Variables Entered | Variables Removed | Method  |
|-------|-------------------|-------------------|---|
| 6     | playcount_norm_d  | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 7     | artist_gender     | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 8     | artist_origin     | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |

a. Dependent Variable: cooccurcount

### Model Summary

| Model | R                 | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1     | .648 <sup>a</sup> | .420     | .419              | 19.782                     |
| 2     | .685 <sup>b</sup> | .470     | .470              | 18.908                     |
| 3     | .696 <sup>c</sup> | .484     | .484              | 18.645                     |
| 4     | .701 <sup>d</sup> | .492     | .492              | 18.509                     |
| 5     | .705 <sup>e</sup> | .497     | .497              | 18.409                     |
| 6     | .710 <sup>f</sup> | .505     | .505              | 18.275                     |
| 7     | .713 <sup>g</sup> | .508     | .508              | 18.205                     |
| 8     | .715 <sup>h</sup> | .511     | .511              | 18.160                     |

a. Predictors: (Constant), album\_title

b. Predictors: (Constant), album\_title, listeners\_norm

c. Predictors: (Constant), album\_title, listeners\_norm, genre

d. Predictors: (Constant), album\_title, listeners\_norm, genre, artist

e. Predictors: (Constant), album\_title, listeners\_norm, genre, artist, album\_year\_d

f. Predictors: (Constant), album\_title, listeners\_norm, genre, artist, album\_year\_d, playcount\_norm\_d

g. Predictors: (Constant), album\_title, listeners\_norm, genre, artist, album\_year\_d, playcount\_norm\_d, artist\_gender

h. Predictors: (Constant), album\_title, listeners\_norm, genre, artist, album\_year\_d, playcount\_norm\_d, artist\_gender, artist\_origin

# ANOVA<sup>a</sup>

| Model |            | Sum of Squares | df    | Mean Square | F         | Sig.              |
|-------|------------|----------------|-------|-------------|-----------|-------------------|
| 1     | Regression | 12127196.91    | 1     | 12127196.91 | 30991.148 | .000 <sup>b</sup> |
|       | Residual   | 16781399.64    | 42885 | 391.312     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 2     | Regression | 13577718.97    | 2     | 678859.487  | 18990.006 | .000 <sup>c</sup> |
|       | Residual   | 15330877.58    | 42884 | 357.496     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 3     | Regression | 14001017.23    | 3     | 4667005.745 | 13425.064 | .000 <sup>d</sup> |
|       | Residual   | 14907579.32    | 42883 | 347.634     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 4     | Regression | 14217238.27    | 4     | 3554309.567 | 10374.528 | .000 <sup>e</sup> |
|       | Residual   | 14691358.28    | 42882 | 342.600     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 5     | Regression | 14377378.82    | 5     | 2875475.764 | 8485.406  | .000 <sup>f</sup> |
|       | Residual   | 14531217.73    | 42881 | 338.873     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 6     | Regression | 14587757.03    | 6     | 2431292.838 | 7279.869  | .000 <sup>g</sup> |
|       | Residual   | 14320839.52    | 42880 | 333.975     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 7     | Regression | 14696959.27    | 7     | 2099565.610 | 6334.757  | .000 <sup>h</sup> |
|       | Residual   | 14211637.29    | 42879 | 331.436     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 8     | Regression | 14767290.30    | 8     | 1845911.287 | 5597.007  | .000 <sup>i</sup> |
|       | Residual   | 14141306.26    | 42878 | 329.803     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |

a. Dependent Variable: cooccurcount

b. Predictors: (Constant), album\_title

c. Predictors: (Constant), album\_title, listeners\_norm

d. Predictors: (Constant), album\_title, listeners\_norm, genre

e. Predictors: (Constant), album\_title, listeners\_norm, genre, artist

f. Predictors: (Constant), album\_title, listeners\_norm, genre, artist, album\_year\_d

g. Predictors: (Constant), album\_title, listeners\_norm, genre, artist, album\_year\_d, playcount\_norm\_d

h. Predictors: (Constant), album\_title, listeners\_norm, genre, artist, album\_year\_d, playcount\_norm\_d, artist\_gender

i. Predictors: (Constant), album\_title, listeners\_norm, genre, artist, album\_year\_d, playcount\_norm\_d, artist\_gender, artist\_origin

### Coefficients<sup>a</sup>

| Model |                  | Unstandardized Coefficients |            | Standardized Coefficients | t       | Sig. |
|-------|------------------|-----------------------------|------------|---------------------------|---------|------|
|       |                  | B                           | Std. Error | Beta                      |         |      |
| 1     | (Constant)       | 22.463                      | .097       |                           | 231.245 | .000 |
|       | album_title      | 94.047                      | .534       | .648                      | 176.043 | .000 |
| 2     | (Constant)       | 8.819                       | .233       |                           | 37.777  | .000 |
|       | album_title      | 96.873                      | .513       | .667                      | 189.004 | .000 |
|       | listeners_norm   | .000                        | .000       | .225                      | 63.698  | .000 |
| 3     | (Constant)       | 5.089                       | .254       |                           | 20.050  | .000 |
|       | album_title      | 90.657                      | .536       | .624                      | 169.167 | .000 |
|       | listeners_norm   | .000                        | .000       | .244                      | 69.171  | .000 |
|       | genre            | 3.095                       | .089       | .130                      | 34.895  | .000 |
| 4     | (Constant)       | 5.274                       | .252       |                           | 20.924  | .000 |
|       | album_title      | 78.217                      | .727       | .539                      | 107.619 | .000 |
|       | listeners_norm   | .000                        | .000       | .243                      | 69.522  | .000 |
|       | genre            | 2.419                       | .092       | .102                      | 26.281  | .000 |
|       | artist           | 14.254                      | .567       | .131                      | 25.122  | .000 |
| 5     | (Constant)       | 6.815                       | .261       |                           | 26.157  | .000 |
|       | album_title      | 75.564                      | .733       | .520                      | 103.080 | .000 |
|       | listeners_norm   | .000                        | .000       | .235                      | 67.152  | .000 |
|       | genre            | 2.304                       | .092       | .097                      | 25.125  | .000 |
|       | artist           | 16.100                      | .571       | .148                      | 28.214  | .000 |
|       | album_year_d     | -.362                       | .017       | -.076                     | -21.739 | .000 |
| 6     | (Constant)       | 5.681                       | .263       |                           | 21.638  | .000 |
|       | album_title      | 75.500                      | .728       | .520                      | 103.744 | .000 |
|       | listeners_norm   | .000                        | .000       | .215                      | 60.264  | .000 |
|       | genre            | 2.543                       | .092       | .107                      | 27.776  | .000 |
|       | artist           | 16.543                      | .567       | .153                      | 29.187  | .000 |
|       | album_year_d     | -.422                       | .017       | -.089                     | -25.245 | .000 |
|       | playcount_norm_d | 4.469E-6                    | .000       | .090                      | 25.098  | .000 |
| 7     | (Constant)       | 3.761                       | .282       |                           | 13.330  | .000 |
|       | album_title      | 75.499                      | .725       | .520                      | 104.139 | .000 |
|       | listeners_norm   | .000                        | .000       | .222                      | 62.135  | .000 |
|       | genre            | 2.370                       | .092       | .100                      | 25.855  | .000 |
|       | artist           | 15.404                      | .568       | .142                      | 27.116  | .000 |
|       | album_year_d     | -.460                       | .017       | -.096                     | -27.393 | .000 |
|       | playcount_norm_d | 4.459E-6                    | .000       | .089                      | 25.137  | .000 |
|       | artist_gender    | 1.770                       | .098       | .065                      | 18.152  | .000 |
| 8     | (Constant)       | 2.309                       | .298       |                           | 7.736   | .000 |
|       | album_title      | 75.490                      | .723       | .520                      | 104.385 | .000 |

## Coefficients<sup>a</sup>

|       |                  | 95.0% Confidence Interval for B |             |
|-------|------------------|---------------------------------|-------------|
| Model |                  | Lower Bound                     | Upper Bound |
| 1     | (Constant)       | 22.273                          | 22.654      |
|       | album_title      | 93.000                          | 95.094      |
| 2     | (Constant)       | 8.362                           | 9.277       |
|       | album_title      | 95.868                          | 97.878      |
|       | listeners_norm   | .000                            | .000        |
| 3     | (Constant)       | 4.592                           | 5.587       |
|       | album_title      | 89.606                          | 91.707      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 2.921                           | 3.269       |
| 4     | (Constant)       | 4.780                           | 5.769       |
|       | album_title      | 76.792                          | 79.642      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 2.239                           | 2.600       |
|       | artist           | 13.142                          | 15.366      |
| 5     | (Constant)       | 6.304                           | 7.325       |
|       | album_title      | 74.127                          | 77.001      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 2.124                           | 2.484       |
|       | artist           | 14.981                          | 17.218      |
|       | album_year_d     | -.395                           | -.330       |
| 6     | (Constant)       | 5.167                           | 6.196       |
|       | album_title      | 74.073                          | 76.926      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 2.363                           | 2.722       |
|       | artist           | 15.432                          | 17.653      |
|       | album_year_d     | -.455                           | -.389       |
|       | playcount_norm_d | .000                            | .000        |
| 7     | (Constant)       | 3.208                           | 4.314       |
|       | album_title      | 74.078                          | 76.920      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 2.191                           | 2.550       |
|       | artist           | 14.291                          | 16.518      |
|       | album_year_d     | -.493                           | -.427       |
|       | playcount_norm_d | .000                            | .000        |
|       | artist_gender    | 1.579                           | 1.962       |
| 8     | (Constant)       | 1.724                           | 2.894       |
|       | album_title      | 74.072                          | 76.907      |

### Coefficients<sup>a</sup>

| Model |                  | Unstandardized Coefficients |            | Standardized Coefficients | t       | Sig. |
|-------|------------------|-----------------------------|------------|---------------------------|---------|------|
|       |                  | B                           | Std. Error | Beta                      |         |      |
|       | listeners_norm   | .000                        | .000       | .230                      | 63.756  | .000 |
|       | genre            | 2.215                       | .092       | .093                      | 24.060  | .000 |
|       | artist           | 13.269                      | .585       | .122                      | 22.674  | .000 |
|       | album_year_d     | -.458                       | .017       | -.096                     | -27.335 | .000 |
|       | playcount_norm_d | 4.544E-6                    | .000       | .091                      | 25.664  | .000 |
|       | artist_gender    | 1.625                       | .098       | .059                      | 16.615  | .000 |
|       | artist_origin    | 1.090                       | .075       | .057                      | 14.603  | .000 |

### Coefficients<sup>a</sup>

| Model |                  | 95.0% Confidence Interval for B |             |
|-------|------------------|---------------------------------|-------------|
|       |                  | Lower Bound                     | Upper Bound |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 2.035                           | 2.396       |
|       | artist           | 12.122                          | 14.417      |
|       | album_year_d     | -.491                           | -.425       |
|       | playcount_norm_d | .000                            | .000        |
|       | artist_gender    | 1.433                           | 1.817       |
|       | artist_origin    | .944                            | 1.236       |

a. Dependent Variable: cooccurcount

### Excluded Variables<sup>a</sup>

| Model |                  | Beta In            | t       | Sig. | Partial Correlation | Collinearity Statistics<br>Tolerance |
|-------|------------------|--------------------|---------|------|---------------------|--------------------------------------|
| 1     | artist           | .159 <sup>b</sup>  | 29.983  | .000 | .143                | .474                                 |
|       | artist_origin    | .055 <sup>b</sup>  | 14.288  | .000 | .069                | .896                                 |
|       | artist_gender    | .046 <sup>b</sup>  | 12.339  | .000 | .059                | .976                                 |
|       | album_year_d     | -.086 <sup>b</sup> | -23.413 | .000 | -.112               | .992                                 |
|       | genre            | .091 <sup>b</sup>  | 23.341  | .000 | .112                | .884                                 |
|       | listeners_norm   | .225 <sup>b</sup>  | 63.698  | .000 | .294                | .993                                 |
|       | playcount_norm_d | .108 <sup>b</sup>  | 29.530  | .000 | .141                | .990                                 |
| 2     | artist           | .172 <sup>c</sup>  | 34.020  | .000 | .162                | .473                                 |
|       | artist_origin    | .105 <sup>c</sup>  | 27.861  | .000 | .133                | .863                                 |
|       | artist_gender    | .081 <sup>c</sup>  | 22.523  | .000 | .108                | .955                                 |
|       | album_year_d     | -.063 <sup>c</sup> | -17.828 | .000 | -.086               | .981                                 |
|       | genre            | .130 <sup>c</sup>  | 34.895  | .000 | .166                | .863                                 |
|       | playcount_norm_d | .060 <sup>c</sup>  | 16.574  | .000 | .080                | .939                                 |
| 3     | artist           | .131 <sup>d</sup>  | 25.122  | .000 | .120                | .433                                 |
|       | artist_origin    | .081 <sup>d</sup>  | 21.316  | .000 | .102                | .826                                 |
|       | artist_gender    | .065 <sup>d</sup>  | 18.133  | .000 | .087                | .937                                 |
|       | album_year_d     | -.061 <sup>d</sup> | -17.575 | .000 | -.085               | .981                                 |
|       | playcount_norm_d | .076 <sup>d</sup>  | 21.162  | .000 | .102                | .926                                 |
| 4     | artist_origin    | .060 <sup>e</sup>  | 15.314  | .000 | .074                | .768                                 |
|       | artist_gender    | .054 <sup>e</sup>  | 15.118  | .000 | .073                | .922                                 |
|       | album_year_d     | -.076 <sup>e</sup> | -21.739 | .000 | -.104               | .959                                 |
|       | playcount_norm_d | .077 <sup>e</sup>  | 21.569  | .000 | .104                | .926                                 |
| 5     | artist_origin    | .060 <sup>f</sup>  | 15.389  | .000 | .074                | .768                                 |
|       | artist_gender    | .065 <sup>f</sup>  | 18.098  | .000 | .087                | .907                                 |
|       | playcount_norm_d | .090 <sup>f</sup>  | 25.098  | .000 | .120                | .907                                 |
| 6     | artist_origin    | .063 <sup>g</sup>  | 16.328  | .000 | .079                | .767                                 |
|       | artist_gender    | .065 <sup>g</sup>  | 18.152  | .000 | .087                | .907                                 |
| 7     | artist_origin    | .057 <sup>h</sup>  | 14.603  | .000 | .070                | .760                                 |

a. Dependent Variable: cooccurcount

b. Predictors in the Model: (Constant), album\_title

c. Predictors in the Model: (Constant), album\_title, listeners\_norm

d. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre

e. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, artist

f. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, artist, album\_year\_d

- g. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, artist, album\_year\_d, playcount\_norm\_d
- h. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, artist, album\_year\_d, playcount\_norm\_d, artist\_gender

```
REGRESSION
/MISSING LISTWISE
/STATISTICS COEFF OUTS CI(95) R ANOVA
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT cooccurcount
/METHOD=STEPWISE artist artist_era artist_origin artist_gender album_title
album_year
album_year_d genre toptags_norm listeners_norm listeners_norm_d
```

## Regression

**Variables Entered/Removed<sup>a</sup>**

| Model | Variables Entered | Variables Removed | Method  |
|-------|-------------------|-------------------|---|
| 1     | album_title       | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 2     | listeners_norm    | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |

### Variables Entered/Removed<sup>a</sup>

| Model | Variables Entered | Variables Removed | Method  |
|-------|-------------------|-------------------|---|
| 3     | genre             | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 4     | listeners_norm_d  | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 5     | artist            | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 6     | album_year_d      | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 7     | artist_gender     | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |

### Variables Entered/Removed<sup>a</sup>

| Model | Variables Entered | Variables Removed | Method  |
|-------|-------------------|-------------------|---|
| 8     | artist_origin     | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 9     | artist_era        | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 10    | toptags_norm      | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |
| 11    | album_year        | .                 | Stepwise<br>(Criteria:<br>Probability-of-<br>F-to-enter <= .<br>050,<br>Probability-of-<br>F-to-remove<br>>= .100). |

a. Dependent Variable: cooccurcount

### Model Summary

| Model | R                 | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1     | .648 <sup>a</sup> | .420     | .419              | 19.782                     |
| 2     | .685 <sup>b</sup> | .470     | .470              | 18.908                     |
| 3     | .696 <sup>c</sup> | .484     | .484              | 18.645                     |
| 4     | .702 <sup>d</sup> | .493     | .493              | 18.489                     |
| 5     | .708 <sup>e</sup> | .501     | .501              | 18.342                     |
| 6     | .713 <sup>f</sup> | .509     | .509              | 18.193                     |
| 7     | .716 <sup>g</sup> | .513     | .513              | 18.120                     |
| 8     | .718 <sup>h</sup> | .515     | .515              | 18.075                     |
| 9     | .719 <sup>i</sup> | .517     | .517              | 18.051                     |
| 10    | .720 <sup>j</sup> | .518     | .518              | 18.029                     |
| 11    | .720 <sup>k</sup> | .519     | .519              | 18.010                     |

- a. Predictors: (Constant), album\_title
- b. Predictors: (Constant), album\_title, listeners\_norm
- c. Predictors: (Constant), album\_title, listeners\_norm, genre
- d. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d
- e. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist
- f. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d
- g. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender
- h. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin
- i. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era
- j. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era, toptags\_norm
- k. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era, toptags\_norm, album\_year

# ANOVA<sup>a</sup>

| Model |            | Sum of Squares | df    | Mean Square | F         | Sig.              |
|-------|------------|----------------|-------|-------------|-----------|-------------------|
| 1     | Regression | 12127196.91    | 1     | 12127196.91 | 30991.148 | .000 <sup>b</sup> |
|       | Residual   | 16781399.64    | 42885 | 391.312     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 2     | Regression | 13577718.97    | 2     | 678859.487  | 18990.006 | .000 <sup>c</sup> |
|       | Residual   | 15330877.58    | 42884 | 357.496     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 3     | Regression | 14001017.23    | 3     | 4667005.745 | 13425.064 | .000 <sup>d</sup> |
|       | Residual   | 14907579.32    | 42883 | 347.634     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 4     | Regression | 14249357.19    | 4     | 3562339.298 | 10420.748 | .000 <sup>e</sup> |
|       | Residual   | 14659239.36    | 42882 | 341.851     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 5     | Regression | 14482840.58    | 5     | 2896568.115 | 8610.137  | .000 <sup>f</sup> |
|       | Residual   | 14425755.98    | 42881 | 336.414     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 6     | Regression | 14716326.68    | 6     | 2452721.114 | 7410.561  | .000 <sup>g</sup> |
|       | Residual   | 14192269.87    | 42880 | 330.976     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 7     | Regression | 14830685.14    | 7     | 2118669.305 | 6453.118  | .000 <sup>h</sup> |
|       | Residual   | 14077911.42    | 42879 | 328.317     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 8     | Regression | 14899614.88    | 8     | 1862451.860 | 5700.501  | .000 <sup>i</sup> |
|       | Residual   | 14008981.67    | 42878 | 326.717     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 9     | Regression | 14938228.25    | 9     | 1659803.139 | 5094.166  | .000 <sup>j</sup> |
|       | Residual   | 13970368.31    | 42877 | 325.824     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 10    | Regression | 14972087.95    | 10    | 1497208.795 | 4606.198  | .000 <sup>k</sup> |
|       | Residual   | 13936508.61    | 42876 | 325.042     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |
| 11    | Regression | 15002056.41    | 11    | 1363823.310 | 4204.779  | .000 <sup>l</sup> |
|       | Residual   | 13906540.15    | 42875 | 324.351     |           |                   |
|       | Total      | 28908596.55    | 42886 |             |           |                   |

a. Dependent Variable: cooccurcount

b. Predictors: (Constant), album\_title

c. Predictors: (Constant), album\_title, listeners\_norm

.

- d. Predictors: (Constant), album\_title, listeners\_norm, genre
- e. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d
- f. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist
- g. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d
- h. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender
- i. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin
- j. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era
- k. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era, toptags\_norm
- l. Predictors: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d,

### Coefficients<sup>a</sup>

| Model |                  | Unstandardized Coefficients |            | Standardized Coefficients | t       | Sig. |
|-------|------------------|-----------------------------|------------|---------------------------|---------|------|
|       |                  | B                           | Std. Error | Beta                      |         |      |
| 1     | (Constant)       | 22.463                      | .097       |                           | 231.245 | .000 |
|       | album_title      | 94.047                      | .534       | .648                      | 176.043 | .000 |
| 2     | (Constant)       | 8.819                       | .233       |                           | 37.777  | .000 |
|       | album_title      | 96.873                      | .513       | .667                      | 189.004 | .000 |
|       | listeners_norm   | .000                        | .000       | .225                      | 63.698  | .000 |
| 3     | (Constant)       | 5.089                       | .254       |                           | 20.050  | .000 |
|       | album_title      | 90.657                      | .536       | .624                      | 169.167 | .000 |
|       | listeners_norm   | .000                        | .000       | .244                      | 69.171  | .000 |
|       | genre            | 3.095                       | .089       | .130                      | 34.895  | .000 |
| 4     | (Constant)       | 2.517                       | .269       |                           | 9.349   | .000 |
|       | album_title      | 91.505                      | .532       | .630                      | 171.887 | .000 |
|       | listeners_norm   | .000                        | .000       | .236                      | 67.270  | .000 |
|       | genre            | 3.428                       | .089       | .144                      | 38.599  | .000 |
|       | listeners_norm_d | 5.518E-5                    | .000       | .095                      | 26.953  | .000 |
| 5     | (Constant)       | 2.620                       | .267       |                           | 9.809   | .000 |
|       | album_title      | 78.599                      | .720       | .541                      | 109.115 | .000 |
|       | listeners_norm   | .000                        | .000       | .235                      | 67.569  | .000 |
|       | genre            | 2.737                       | .092       | .115                      | 29.780  | .000 |
|       | listeners_norm_d | 5.711E-5                    | .000       | .098                      | 28.098  | .000 |
|       | artist           | 14.821                      | .563       | .137                      | 26.345  | .000 |
| 6     | (Constant)       | 4.122                       | .271       |                           | 15.218  | .000 |
|       | album_title      | 75.413                      | .724       | .519                      | 104.092 | .000 |
|       | listeners_norm   | .000                        | .000       | .224                      | 64.403  | .000 |
|       | genre            | 2.642                       | .091       | .111                      | 28.956  | .000 |

## Coefficients<sup>a</sup>

| Model |                  | 95.0% Confidence Interval for B |             |
|-------|------------------|---------------------------------|-------------|
|       |                  | Lower Bound                     | Upper Bound |
| 1     | (Constant)       | 22.273                          | 22.654      |
|       | album_title      | 93.000                          | 95.094      |
| 2     | (Constant)       | 8.362                           | 9.277       |
|       | album_title      | 95.868                          | 97.878      |
|       | listeners_norm   | .000                            | .000        |
| 3     | (Constant)       | 4.592                           | 5.587       |
|       | album_title      | 89.606                          | 91.707      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 2.921                           | 3.269       |
| 4     | (Constant)       | 1.989                           | 3.044       |
|       | album_title      | 90.461                          | 92.548      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 3.254                           | 3.602       |
|       | listeners_norm_d | .000                            | .000        |
| 5     | (Constant)       | 2.096                           | 3.143       |
|       | album_title      | 77.187                          | 80.011      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 2.557                           | 2.918       |
|       | listeners_norm_d | .000                            | .000        |
|       | artist           | 13.719                          | 15.924      |
| 6     | (Constant)       | 3.591                           | 4.653       |
|       | album_title      | 73.993                          | 76.833      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 2.463                           | 2.821       |

### Coefficients<sup>a</sup>

|       |                  | Unstandardized Coefficients |            | Standardized Coefficients |         |      |
|-------|------------------|-----------------------------|------------|---------------------------|---------|------|
| Model |                  | B                           | Std. Error | Beta                      | t       | Sig. |
| 7     | listeners_norm_d | 6.525E-5                    | .000       | .112                      | 32.001  | .000 |
|       | artist           | 17.157                      | .565       | .158                      | 30.371  | .000 |
|       | album_year_d     | -.443                       | .017       | -.093                     | -26.560 | .000 |
|       | (Constant)       | 2.138                       | .290       |                           | 7.372   | .000 |
|       | album_title      | 75.411                      | .722       | .519                      | 104.510 | .000 |
|       | listeners_norm   | .000                        | .000       | .231                      | 66.342  | .000 |
|       | genre            | 2.469                       | .091       | .104                      | 27.022  | .000 |
|       | listeners_norm_d | 6.566E-5                    | .000       | .113                      | 32.329  | .000 |
|       | artist           | 16.000                      | .566       | .148                      | 28.266  | .000 |
|       | album_year_d     | -.482                       | .017       | -.101                     | -28.801 | .000 |
|       | artist_gender    | 1.812                       | .097       | .066                      | 18.663  | .000 |
|       | (Constant)       | .696                        | .306       |                           | 2.275   | .023 |
| 8     | album_title      | 75.402                      | .720       | .519                      | 104.753 | .000 |
|       | listeners_norm   | .000                        | .000       | .239                      | 67.951  | .000 |
|       | genre            | 2.314                       | .092       | .097                      | 25.216  | .000 |
|       | listeners_norm_d | 6.629E-5                    | .000       | .114                      | 32.709  | .000 |
|       | artist           | 13.889                      | .583       | .128                      | 23.820  | .000 |
|       | album_year_d     | -.479                       | .017       | -.101                     | -28.725 | .000 |
|       | artist_gender    | 1.668                       | .097       | .061                      | 17.139  | .000 |
|       | artist_origin    | 1.079                       | .074       | .056                      | 14.525  | .000 |
|       | (Constant)       | -.373                       | .321       |                           | -1.162  | .245 |
|       | album_title      | 75.766                      | .720       | .522                      | 105.289 | .000 |
| 9     | listeners_norm   | .000                        | .000       | .235                      | 66.378  | .000 |
|       | genre            | 2.267                       | .092       | .095                      | 24.717  | .000 |
|       | listeners_norm_d | 6.565E-5                    | .000       | .113                      | 32.424  | .000 |
|       | artist           | 12.698                      | .592       | .117                      | 21.433  | .000 |
|       | album_year_d     | -.431                       | .017       | -.090                     | -24.985 | .000 |
|       | artist_gender    | 1.700                       | .097       | .062                      | 17.475  | .000 |
|       | artist_origin    | 1.108                       | .074       | .058                      | 14.927  | .000 |
|       | artist_era       | 1.911                       | .176       | .039                      | 10.886  | .000 |
|       | (Constant)       | -.824                       | .323       |                           | -2.548  | .011 |
|       | album_title      | 75.531                      | .719       | .520                      | 105.034 | .000 |
| 10    | listeners_norm   | .000                        | .000       | .231                      | 64.967  | .000 |
|       | genre            | 2.122                       | .093       | .089                      | 22.886  | .000 |
|       | listeners_norm_d | 6.766E-5                    | .000       | .116                      | 33.300  | .000 |
|       | artist           | 12.230                      | .594       | .113                      | 20.607  | .000 |
|       | album_year_d     | -.456                       | .017       | -.096                     | -26.184 | .000 |
|       | (Constant)       |                             |            |                           |         |      |
|       | album_title      |                             |            |                           |         |      |

### Coefficients<sup>a</sup>

| Model |                  | 95.0% Confidence Interval for B |             |
|-------|------------------|---------------------------------|-------------|
|       |                  | Lower Bound                     | Upper Bound |
| 7     | listeners_norm_d | .000                            | .000        |
|       | artist           | 16.050                          | 18.264      |
|       | album_year_d     | -.475                           | -.410       |
|       | (Constant)       | 1.569                           | 2.706       |
|       | album_title      | 73.997                          | 76.825      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 2.290                           | 2.648       |
|       | listeners_norm_d | .000                            | .000        |
|       | artist           | 14.891                          | 17.110      |
|       | album_year_d     | -.515                           | -.449       |
|       | artist_gender    | 1.622                           | 2.002       |
| 8     | (Constant)       | .096                            | 1.295       |
|       | album_title      | 73.991                          | 76.813      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 2.134                           | 2.494       |
|       | listeners_norm_d | .000                            | .000        |
|       | artist           | 12.746                          | 15.032      |
|       | album_year_d     | -.512                           | -.447       |
|       | artist_gender    | 1.478                           | 1.859       |
|       | artist_origin    | .933                            | 1.224       |
| 9     | (Constant)       | -1.001                          | .256        |
|       | album_title      | 74.356                          | 77.177      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 2.088                           | 2.447       |
|       | listeners_norm_d | .000                            | .000        |
|       | artist           | 11.537                          | 13.860      |
|       | album_year_d     | -.465                           | -.397       |
|       | artist_gender    | 1.509                           | 1.890       |
|       | artist_origin    | .962                            | 1.253       |
|       | artist_era       | 1.567                           | 2.255       |
| 10    | (Constant)       | -1.458                          | -.190       |
|       | album_title      | 74.121                          | 76.940      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 1.940                           | 2.304       |
|       | listeners_norm_d | .000                            | .000        |
|       | artist           | 11.067                          | 13.394      |
|       | album_year_d     | -.490                           | -.421       |

### Coefficients<sup>a</sup>

| Model |                  | Unstandardized Coefficients |            | Standardized Coefficients | t       | Sig. |
|-------|------------------|-----------------------------|------------|---------------------------|---------|------|
|       |                  | B                           | Std. Error | Beta                      |         |      |
| 11    | artist_gender    | 1.596                       | .098       | .058                      | 16.346  | .000 |
|       | artist_origin    | 1.099                       | .074       | .057                      | 14.828  | .000 |
|       | artist_era       | 1.915                       | .175       | .039                      | 10.927  | .000 |
|       | toptags_norm     | 7.332                       | .718       | .037                      | 10.206  | .000 |
|       | (Constant)       | -438.745                    | 45.560     |                           | -9.630  | .000 |
|       | album_title      | 75.319                      | .719       | .519                      | 104.802 | .000 |
|       | listeners_norm   | .000                        | .000       | .223                      | 61.161  | .000 |
|       | genre            | 2.065                       | .093       | .087                      | 22.256  | .000 |
|       | listeners_norm_d | 6.441E-5                    | .000       | .111                      | 31.300  | .000 |
|       | artist           | 11.827                      | .594       | .109                      | 19.898  | .000 |
|       | album_year_d     | -.316                       | .023       | -.066                     | -13.919 | .000 |
|       | artist_gender    | 1.694                       | .098       | .062                      | 17.271  | .000 |
|       | artist_origin    | 1.112                       | .074       | .058                      | 15.013  | .000 |
|       | artist_era       | 1.875                       | .175       | .039                      | 10.702  | .000 |
|       | toptags_norm     | 11.294                      | .828       | .057                      | 13.647  | .000 |
|       | album_year       | .217                        | .023       | .051                      | 9.612   | .000 |

### Coefficients<sup>a</sup>

| Model |                  | 95.0% Confidence Interval for B |             |
|-------|------------------|---------------------------------|-------------|
|       |                  | Lower Bound                     | Upper Bound |
|       | artist_gender    | 1.405                           | 1.788       |
|       | artist_origin    | .954                            | 1.244       |
|       | artist_era       | 1.572                           | 2.259       |
|       | toptags_norm     | 5.924                           | 8.740       |
| 11    | (Constant)       | -528.043                        | -349.447    |
|       | album_title      | 73.911                          | 76.728      |
|       | listeners_norm   | .000                            | .000        |
|       | genre            | 1.884                           | 2.247       |
|       | listeners_norm_d | .000                            | .000        |
|       | artist           | 10.662                          | 12.992      |
|       | album_year_d     | -.360                           | -.271       |
|       | artist_gender    | 1.502                           | 1.886       |
|       | artist_origin    | .967                            | 1.257       |
|       | artist_era       | 1.531                           | 2.218       |
|       | toptags_norm     | 9.672                           | 12.916      |
|       | album_year       | .173                            | .262        |

a. Dependent Variable: cooccurcount

### Excluded Variables<sup>a</sup>

| Model |                  | Beta In            | t       | Sig. | Partial Correlation | Collinearity Statistics<br>Tolerance |
|-------|------------------|--------------------|---------|------|---------------------|--------------------------------------|
| 1     | artist           | .159 <sup>b</sup>  | 29.983  | .000 | .143                | .474                                 |
|       | artist_era       | .108 <sup>b</sup>  | 29.235  | .000 | .140                | .978                                 |
|       | artist_origin    | .055 <sup>b</sup>  | 14.288  | .000 | .069                | .896                                 |
|       | artist_gender    | .046 <sup>b</sup>  | 12.339  | .000 | .059                | .976                                 |
|       | album_year       | .098 <sup>b</sup>  | 26.905  | .000 | .129                | .999                                 |
|       | album_year_d     | -.086 <sup>b</sup> | -23.413 | .000 | -.112               | .992                                 |
|       | genre            | .091 <sup>b</sup>  | 23.341  | .000 | .112                | .884                                 |
|       | toptags_norm     | .064 <sup>b</sup>  | 17.147  | .000 | .083                | .962                                 |
|       | listeners_norm   | .225 <sup>b</sup>  | 63.698  | .000 | .294                | .993                                 |
|       | listeners_norm_d | .099 <sup>b</sup>  | 26.846  | .000 | .129                | .986                                 |
| 2     | artist           | .172 <sup>c</sup>  | 34.020  | .000 | .162                | .473                                 |
|       | artist_era       | .078 <sup>c</sup>  | 21.814  | .000 | .105                | .959                                 |
|       | artist_origin    | .105 <sup>c</sup>  | 27.861  | .000 | .133                | .863                                 |
|       | artist_gender    | .081 <sup>c</sup>  | 22.523  | .000 | .108                | .955                                 |
|       | album_year       | .052 <sup>c</sup>  | 14.388  | .000 | .069                | .951                                 |
|       | album_year_d     | -.063 <sup>c</sup> | -17.828 | .000 | -.086               | .981                                 |
|       | genre            | .130 <sup>c</sup>  | 34.895  | .000 | .166                | .863                                 |
|       | toptags_norm     | .055 <sup>c</sup>  | 15.505  | .000 | .075                | .961                                 |
|       | listeners_norm_d | .076 <sup>c</sup>  | 21.421  | .000 | .103                | .975                                 |
| 3     | artist           | .131 <sup>d</sup>  | 25.122  | .000 | .120                | .433                                 |
|       | artist_era       | .067 <sup>d</sup>  | 18.920  | .000 | .091                | .951                                 |
|       | artist_origin    | .081 <sup>d</sup>  | 21.316  | .000 | .102                | .826                                 |
|       | artist_gender    | .065 <sup>d</sup>  | 18.133  | .000 | .087                | .937                                 |
|       | album_year       | .057 <sup>d</sup>  | 16.018  | .000 | .077                | .950                                 |
|       | album_year_d     | -.061 <sup>d</sup> | -17.575 | .000 | -.085               | .981                                 |
|       | toptags_norm     | .031 <sup>d</sup>  | 8.573   | .000 | .041                | .919                                 |
|       | listeners_norm_d | .095 <sup>d</sup>  | 26.953  | .000 | .129                | .956                                 |
| 4     | artist           | .137 <sup>e</sup>  | 26.345  | .000 | .126                | .432                                 |
|       | artist_era       | .068 <sup>e</sup>  | 19.501  | .000 | .094                | .951                                 |
|       | artist_origin    | .084 <sup>e</sup>  | 22.349  | .000 | .107                | .825                                 |
|       | artist_gender    | .064 <sup>e</sup>  | 18.188  | .000 | .087                | .937                                 |
|       | album_year       | .052 <sup>e</sup>  | 14.701  | .000 | .071                | .947                                 |

### Excluded Variables<sup>a</sup>

| Model |               | Beta In            | t       | Sig. | Partial Correlation | Collinearity Statistics Tolerance |
|-------|---------------|--------------------|---------|------|---------------------|-----------------------------------|
| 5     | album_year_d  | -.076 <sup>e</sup> | -21.868 | .000 | -.105               | .961                              |
|       | toptags_norm  | .039 <sup>e</sup>  | 10.793  | .000 | .052                | .913                              |
|       | artist_era    | .057 <sup>f</sup>  | 16.213  | .000 | .078                | .933                              |
|       | artist_origin | .062 <sup>f</sup>  | 16.083  | .000 | .077                | .768                              |
|       | artist_gender | .053 <sup>f</sup>  | 15.021  | .000 | .072                | .922                              |
|       | album_year    | .061 <sup>f</sup>  | 17.468  | .000 | .084                | .938                              |
|       | album_year_d  | -.093 <sup>f</sup> | -26.560 | .000 | -.127               | .937                              |
|       | toptags_norm  | .028 <sup>f</sup>  | 7.785   | .000 | .038                | .900                              |
| 6     | artist_era    | .035 <sup>g</sup>  | 9.663   | .000 | .047                | .869                              |
|       | artist_origin | .063 <sup>g</sup>  | 16.293  | .000 | .078                | .768                              |
|       | artist_gender | .066 <sup>g</sup>  | 18.663  | .000 | .090                | .907                              |
|       | album_year    | .002 <sup>g</sup>  | .417    | .677 | .002                | .543                              |
|       | toptags_norm  | .044 <sup>g</sup>  | 12.170  | .000 | .059                | .878                              |
| 7     | artist_era    | .037 <sup>h</sup>  | 10.329  | .000 | .050                | .868                              |
|       | artist_origin | .056 <sup>h</sup>  | 14.525  | .000 | .070                | .760                              |
|       | album_year    | .015 <sup>h</sup>  | 3.152   | .002 | .015                | .532                              |
|       | toptags_norm  | .037 <sup>h</sup>  | 10.304  | .000 | .050                | .868                              |
| 8     | artist_era    | .039 <sup>i</sup>  | 10.886  | .000 | .053                | .867                              |
|       | album_year    | .016 <sup>i</sup>  | 3.478   | .001 | .017                | .532                              |
|       | toptags_norm  | .037 <sup>i</sup>  | 10.163  | .000 | .049                | .868                              |
| 9     | album_year    | .015 <sup>j</sup>  | 3.240   | .001 | .016                | .531                              |
|       | toptags_norm  | .037 <sup>j</sup>  | 10.206  | .000 | .049                | .868                              |
| 10    | album_year    | .051 <sup>k</sup>  | 9.612   | .000 | .046                | .400                              |

a. Dependent Variable: cooccurcount

b. Predictors in the Model: (Constant), album\_title

c. Predictors in the Model: (Constant), album\_title, listeners\_norm

d. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre

e. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d

f. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist

g. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d

h.

- i. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin
- j. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era
- k. Predictors in the Model: (Constant), album\_title, listeners\_norm, genre, listeners\_norm\_d, artist, album\_year\_d, artist\_gender, artist\_origin, artist\_era, toptags\_norm