Courseware **Course Info Discussion** Syllabus **Download R and RStudio** Readings **R Tutorials Contact Us** Community **Progress Office Hours**

Reflect on the Question

Lab 4: Austin City Limits

1 of 5 01/05/2015 03:37 PM



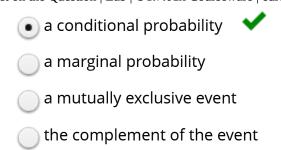
Known as the "Live Music Capital of the World," Austin, Texas is also home to the longest-running music series in American television history, *Austin City Limits*. This dataset includes data on a sample of musicians that performed live on the PBS television series *Austin City Limits* over the last 10 years. Data on each artist include measures of commercial popularity, such as the number of social media followers on Twitter or Facebook, and their success in winning a Grammy Music Award.

(2/2 points)

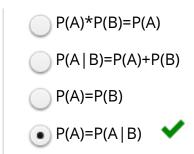
Review of Conditional and Marginal Probability

1) The probability that an event will occur, given that a different event has also occurred, is known as:

2 of 5 01/05/2015 03:37 PM



2) Which of the following must be true for two events, A and B, to be considered independent?



Final Check Save Hide Answer You have used 1 of 2 submissions

(1/1 point)

Lab Preparation

In this lab you will be working with data from Austin City Limits.

- 1. Open RStudio. Make sure you've installed the SDSFoundations package.
- 2. Type library(SDSFoundations) This will automatically load the data for the labs.

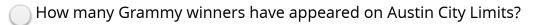
 $_{3 \text{ of }}$ 3. Type **acl <- AustinCityLimits** This will assign the data to your Workspace.

Alternatively, you can use follow the steps in the "Importing a Data Frame" R tutorial video, and use the AustinCityLimits.csv file. (Right-click and "Save As.") Make sure to **name** the dataframe "acl" when importing.

- 1. Open RStudio.
- 2. Click on "Import Dataset" button at the top of the workspace window. Choose "from text file."
- 3. Click on the location of the AustinCityLimits.csv file you just downloaded.
- 4. Click on the AustinCityLimits.csv file. Then, click Upload.

Feel free to use the script from the week's PreLab, which you can modify for use in this Lab.

- 3) One of the following questions will be answered in this lab by comparing **marginal** and **conditional** probabilities. Select the question that should be answered using this method:
 - Is there a relationship between the number of Twitter followers and the number of Facebook friends?
 - Do male and female artists have different numbers of Twitter followers?
 - Is there an association between winning a Grammy award and the genre of music that you play?



Hide Answer

You have used 2 of 2 submissions





best universities. Online courses from MITx, HarvardX, BerkeleyX,

Tx and many other universities. Topics include biology, business,

themistry, computer science, economics, finance, electronics,
engineering, food and nutrition, history, humanities, law,
literature, math, medicine, music, philosophy, physics, science,
statistics and more. EdX is a non-profit online initiative created by
founding partners Harvard and MIT.

© 2014 edX, some rights reserved.

Terms of Service and Honor Code

Privacy Policy (Revised 4/16/2014)

About edX

About

News

Contact

FAQ

edX Blog

Donate to edX

Jobs at edX

Follow Us

Twitter

Facebook

Meetup

in LinkedIn

Google+