Cava Grill: Data Challenge Business Intelligence

Winter 2015

Introduction:

As a means of assessing a candidate's overall ability to both analyze data and communicate effectively, the following challenge has been devised. The challenge is broken into two parts. The first asks that you perform an analysis on some data, and the second part asks that you design a study to test a hypothesis.

Complete as much or as little as you'd like (seriously don't fret or stress too much); those who provide the most thorough insight and analysis will be given preference. Answers to both questions should be written in a formal, professional style as reports (not slide presentations). When you are finished, submit all materials (including any code, graph images, notes, method descriptions, extra thoughts, etc.) as well as a current resume to josh@cavagrill.com.

While you could no doubt spend quite a bit of time on these tasks, it is designed so that candidates should be able to complete both tasks within two or three hours. If you find that you have spent more than a few hours working, you may certainly simply submit what you have (partial responses will be reviewed). The main purpose of this exercises and challenge is to get a better understanding of the candidate's technical skills.

Data Analysis 2:

You should have received a file named "cavaitemssold_bi.csv" along with these instructions (if not, you can download from https://goo.gl/Nsg3Im). There are an unknown amount of rows; each row represents an item sold,a corresponding checkid and the date of purchase[1]. Please summarize the data with any KPI's or metrics you find fit.

Your task is to analyze the data and describe any meaningful insights you find (this task is open ended on purpose). Your analysis should be as thorough as possible. Feel free to be creative in your exploration and to document the process you used in your investigation. Pretty graphs are certainly welcome, but make sure there is sufficient textual analysis as well.

If you have any questions, feel free to email josh@cavagrill.com.

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[1] The data in the file has been especially crafted (randomly generated) for this challenge and is not "real" data.