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| [InterviewQs](http://url4828.interviewqs.com/ls/click?upn=qwT-2Bl0U064-2B7oRNpPgUya7ecPmGRwE2khpP-2F5cNr-2FmX-2B6PqYxRHzWlRa-2B8ecgLBA9-2BqgBN6N-2BlN6LynvPDDX8gP5GJnL7P-2FdFw86KOd0IkE-3DVK3k_IX5HKWnhXeILdZHF1orS-2BlB9GK8lB7SYfPoy-2FMuH4KRohMZLpajhsnIOVcXh9Dl1-2FEM0gexeUVi2uV8saiYk-2BIoemGnh34m-2BtT-2BROOE0Lc-2Bkopd6Z27bKGuv7dOuQ73sXkNsOgMybAyt1cBiJAwdfrsAeeJh5bJa8Hot90W16qZ7R-2BtpW-2FgA186GOcU67cb6BLKl6qkWjqCeJPN3JN3fZyFM0xupig-2FrTIak-2BmVv-2B9SwGJw03-2BdA2J-2FZ15meDfHZXdUHGmxQaL-2B8GMy1Jy-2BrfrE2-2BAG3hUlb6i9i-2FqfmxR29WZTqunzBtavY4azkxzUw2iVORw5-2BXYuCOPID9-2BDYaO3N14o3odPCLtZSGGLx74vsgKUM3mubtI5Uh0dE4DWH) |

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| **Application feedback** |

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| ***Data Analysis, Python, Pandas, Data Manipulation*** |

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| Your team at Apple released a new feature that collects feedback when an app launches. As part of the Alpha Launch for testing, the feedback consists of 1 question within a dialog box that asks "Would you like to give {App Name} your credit card number?" with potential answers being "Yes" and "No". This data is logged within a table named dialogbox\_feedback with the following schema:  **Table: dialogbox\_feedback**   |  |  |  | | --- | --- | --- | | **Column Name** | **Data Type** | **Description** | | time | integer | epoch time of response | | user\_id | integer | unique id of user | | app\_id | integer | unique id of application | | app\_name | string | name of application | | event | string | Possible values are: impressed (when user sees the dialog box), "Yes" (when user clicks yes). There is no logging for when the user clicks "No". |   **Question:** A Product Manager asked you to give an update on how the Alpha Launch is going. You decide to aggregate (e.g. pivot) the events by each app to provide a quick summary. Write the aggregation using Python (Pandas). |