Section Header	Description
Institution Name	Kishwaukee College
Institution Characteristics	Community College
CARLI Counts Participant Name + Job Title	Tim Lockman, Instruction Librarian (now an Instructional Designer)
Project Name/Title	Off-campus Use of Online Library Materials
Single Sentence Abstract	Kishwaukee College Library investigated the relationship between off-campus database use and student success, using reviews of proxy logs, and found a modestly positive correlation between database logins and term GPA (.165 Pearson Correlation).
Motivation(s) for Project	Previously, the Library did a study similar to this one on usage of its print materials. However, before fall of 2017, the Library did not have a proxy server setup, which meant that we had no data on how students were using database materials while off campus. The current project is a first step toward capturing such data via EZ Proxy server log files and using them to guide collection decisions and outreach efforts.
Partners and Stakeholders	Tim Lockman, Instruction Librarian Anne-Marie Green, Dean of Academic Support & Effectiveness Matthew Crull, Director of Institutional Research
Inquiry Question	How are students' online library usage patterns related to student success metrics such as term GPA and proportion of credit hours completed?
Study Participants/Population	Data were retrieved on all students taking courses within the sample time period. Our institution does not have an IRB, so our IR director exercises discretion in the use and reporting of student data.
Method(s) of Data Collection and Analysis	I acquired server logs using the EZ Proxy admin module and converted these files into readable formats using Microsoft Excel. The IR director then used statistical analysis software to determine the relationship between the variables, which was expressed using a Pearson Correlation (please see the Appendix to this report).

Findings	The data provided by EZ Proxy logs are not as rich as we had assumed. Log files may include user names, how much content was accessed, and which databases were used. However, they only track content usage at the aggregate level; it does not appear possible to show what specific content was used by individual users. As a result of this project, I recommend that our Library consider a different proxy tool, such as Open Athens, that can provide the richer data that we need with a better user interface and reporting options.
Use of Findings	The dean who is over the Library will receive a report of the findings, which will be useful for decisionmaking. The IR director indicates that he can provide additional demographic information on the study population, which will be valuable in efforts to understand and reach at-risk groups.
Next Steps and Other Results	Since I have taken a new position outside of the Library, this may be my last in-depth project on Library analytics. However, I did create a guide titled "How to Use EZ Proxy Log Files." This briefly explains what proxy log files are and how we can use them, and includes our institution's admin login information. I see this as a necessary first step toward data-informed decisionmaking with proxy logs, especially since I will be handing the project off to someone else. And although I see the limitations of EZ Proxy for data collection, I hope that my guide will be a helpful one-stop information source for our current proxy setup.
Additional Reflections	There were significant technical hurdles to overcome in this project. The process of getting admin access to our EZ Proxy server itself took several months. Then I had to learn how to extract the log files in a readable format, which I struggled with right up to the end of the project period. This was particularly challenging since I started a new position outside the Library about halfway through the project. Finally, there were the limitations of EZ Proxy itself, which I have

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<tr><td></td><td>mentioned. This experience has shown me the importance of robust technical tools when doing a project of this kind. If the tools are not effective, or are very hard to use, it limits what is possible with the project.</td></tr>
<tr><td>Timeline</td><td>Phase 1 — Defining my project and getting to know my team.
Phase 2 — Initial technical hurdles (EZ Proxy admin access).
Phase 3 — Working as a team on individual projects. Continued technical challenges.
Phase 4 — Developing and presenting the team poster project.
Phase 5 — Overcoming final technical challenges and writing the final report.</td></tr>
<tr><td>Bibliography/Works Cited</td><td>N/A</td></tr>
<tr><td>Appendix</td><td>Correlation of Library Database Usage with Student Term GPA, Aug – Nov 2019
<table>
<tr><td colspan="2"></td><td>GPA
Mean</td></tr>
<tr><td rowspan="7">Login Range</td><td>None</td><td>2.26</td></tr>
<tr><td>One</td><td>2.59</td></tr>
<tr><td>Two</td><td>2.81</td></tr>
<tr><td>Three</td><td>2.79</td></tr>
<tr><td>Four to Nine</td><td>2.82</td></tr>
<tr><td>Ten or more</td><td>3.01</td></tr>
<tr><td>Total</td><td>2.39</td></tr>
</table>
<table>
<tr><td colspan="4">Correlations</td></tr>
<tr><td colspan="2"></td><td>GPA</td><td>Login Range</td></tr>
<tr><td rowspan="3">GPA</td><td>Pearson Correlation</td><td>1</td><td>.165**</td></tr>
<tr><td>Sig. (2-tailed)</td><td></td><td>0.000</td></tr>
<tr><td>N</td><td>2251</td><td>2251</td></tr>
<tr><td rowspan="3">Login Range</td><td>Pearson Correlation</td><td>.165**</td><td>1</td></tr>
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<tr><td>N</td><td>2251</td><td>2251</td></tr>
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**. Correlation is significant at the 0.01 level (2-tailed).</td></tr>
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