

Executive Summary

Part of your completed assignment submission should be an executive summary containing an "Assignment overview" (1 paragraph, up to about 250 words) explaining what you understand to be the purpose and scope of the assignment and a "technical impression" (1–2 paragraphs, about 200–500 words) describing your experiences while carrying out the assignment. The assignment overview shows how well you understand the assignment; the technical impression section helps to determine what parts of the assignment need clarification, improvement, etc., for the future.

Body:

As an overview of this project, I have to say I put a lot of work into it, especially for the SaaS web application deployment without any reference. Through this project, for the part1, I learnt a lot about ER diagram (how to design the relationship), MySQL query, RDS and Redshift. And for the part 2, I reviewed the work before, and learnt some more techniques about IaaS and SaaS. This would be helpful for my understanding and long-term memory.

For the part 1, I learnt a lot about SQL firstly and of course do some basic queries. SQL (Structured Query Language) is a standardized programming language that's used to manage relational databases and perform various operations on the data in them. Then, for the tasks of cloud computing, I would store the data on the cloud (AWS). So in the question 3, I learnt how to do the same queries on RDS using Python programming and on the Redshift using console. At the same time, my understanding of these two services deepened. I understood how they work and what's the difference. And for the part 2, I have a better understanding of IaaS for the web application and the deployment process of SaaS web application. For example, how lambda works (with other storage service: RDS) and how it is deployed.

Through the process of SQL operation, web application deployment and some programming, I understand how the RDS, Redshift, MySQL and Lambda work better. Also, lots of effort could be favorable to Linux system operation and the relationships between various of services of AWS. Through the comprehensive application of them, I believe, in the future, I can cooperate with team members of the class could computing, my friends or colleagues to complete larger projects in a more efficient way. I'm grateful for the experience.