**Task 1 Postgresql - Reflection**

1. **What is the need for Add Ons in Heroku?**

To get any needed tools to use online.

1. **What exactly happens when you click on provision while configuring the Postgres addon?**

The simplicity and speed of this process hides the complexity of what you just did. With only a few clicks, you provisioned one of 150 add-on services, in this case, a relational database. The service is fully managed, is already running, and is now connected to your application.

<https://trailhead.salesforce.com/en/content/learn/projects/quickstart-heroku-connect/qs-heroku-connect-1>

1. **What is the use of Adminer? How does it work?**

Adminer is a tool for managing content of databases. We can add or modify any data in the databases which is stored in cloud

**Task 2 Python and Flask - Reflection**

1. **How do I manage to use python 3.6 if I already have python 2.7?**

I update Python with the latest version because latest version will have updated features.

1. **What is the role of pip and how does it work?**

Pip is a package of modules required for Python. It is used to install latest modules using command pip install module name.

1. **What is the role of requirements.txt and how does it work with pip?**

The role of requirements.txt is to make easy to install required modules for python.

1. **Which packages are installed and why are they required?**

flask package is installed to use flask locally.

Requirements.txt is installed which has required modules for project.

Werkzeug is uninstalled and installed previous version 0.16.0

1. **Which environment variables set for Flask to work? What is the purpose of each variable?**

FLASK\_APP is used to find the file or application.

FLASK\_DEBUG is used to debug automatically when a file is changed

DATABASE\_URL is used to connect the Heroku PostgreSQL URI.

1. **What happens when the Flask run command is issued on the terminal?**

flask run command is used to start the server with localhost address

1. **On which port is Flask running and can it be changed?**

5000 port is used in flask. It can be changed using a command flask run --port=port number

1. **How is Flask different from the tiny web server?**

Flask is different from tiny webserver as in tiny web server we write server-side code whereas in flask the server code is internally build.

**Task 3 Goodreads API - Reflection**

1. **What are the various categories of web APIs available on good reads?**

They are 73 various categories of web APIs available on good reads.

<https://www.goodreads.com/api>

1. **Is there a limit on the use of the web API? What are the limits?**

There is a limit on the use of web API i.e., API will not work if the rate limit exceeds one request per second.

<https://www.goodreads.com/topic/show/2185647-higher-api-limits>