

Kinsa BE Eng Coding Exercise

As part of our interview process we'd like you to write a small piece of software that manages permissions for PostgreSQL databases. The purpose of this exercise is to be a realistic simulation of building a piece of technology.

Requirements:

- Users and permissions are specified in a JSON file within the repo
 - You should define the schema of this JSON
 - This JSON specifies which users have access to which tables
- The tool must evaluate what's specified in this JSON file and compare with the actual state of the DB
- The tool must prompt to confirm changed before executing.
- The tool should be written in Python

Assumptions:

- There are one or more databases
- One database has a table called "events" and a table called "profiles"
 - The columns and rows of these tables are not important for this exercise
 - These should not be hardcoded in the tool's code, but should be read from the JSON file
- There are three users: "master", "abe", "bob"
 - Assume master is the master user that has all permissions
 - The person using this tool has the master password
 - These should not be hardcoded in the tool's code, but should be defined in the JSON
 - Please give some table permissions to abe and some to bob to demonstrate the tool.

Some details were intentionally left out of this description. Feel free to make any additional assumptions, but please let us know what assumption you have made.

You will be evaluated on your code quality and your ability to build this tool with limited specification.