**Flask SQL-Alchemy database problems on Heroku**

by [Touqir Sajed](https://eclass.srv.ualberta.ca/user/view.php?id=201462&course=31986) - Tuesday, 22 November 2016, 4:37 AM

So, when running our server on heroku, if an entry is saved on a database, sometimes when we try to query it, it is not found. We tried using postgreSQL, sqlite but changing the database type doesnt make a difference. Is there any solution to this problem? If this problem persists, we will be unable to physically test properly server-server APIs.

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**Re: Flask SQL-Alchemy database problems on Heroku**

by [Abram Hindle](https://eclass.srv.ualberta.ca/user/view.php?id=1001&course=31986) - Tuesday, 22 November 2016, 8:43 AM

https://devcenter.heroku.com/articles/sqlite3

Do not use SQLite on Heroku unless it is an in-memory database. You will not get any persistence out of it.

You need to use postgresql dyno. This was explained in the tutorial and the labs.

These guys use the same stack that you do:

https://blog.miguelgrinberg.com/post/the-flask-mega-tutorial-part-iv-database

https://blog.miguelgrinberg.com/post/the-flask-mega-tutorial-part-xviii-deployment-on-the-heroku-cloud

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[Picture of Jingjiao Ni](https://eclass.srv.ualberta.ca/user/view.php?id=187851&course=31986)

**Re: Flask SQL-Alchemy database problems on Heroku**

by [Jingjiao Ni](https://eclass.srv.ualberta.ca/user/view.php?id=187851&course=31986) - Tuesday, 22 November 2016, 9:44 AM

When follow the step in https://blog.miguelgrinberg.com/post/the-flask-mega-tutorial-part-xviii-deployment-on-the-heroku-cloud

and add a database on heroku using heroku addons:add heroku-postgresql:dev

It responses with

Creating heroku-postgresql:dev on ⬢ ssrapp... !

 ▸    That add-on plan is only available to select users.

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**Re: Flask SQL-Alchemy database problems on Heroku**

by [Abram Hindle](https://eclass.srv.ualberta.ca/user/view.php?id=1001&course=31986) - Tuesday, 22 November 2016, 10:20 AM

Try following these more recent instructions

https://devcenter.heroku.com/articles/getting-started-with-python#provision-a-database

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**Re: Flask SQL-Alchemy database problems on Heroku**

by [Touqir Sajed](https://eclass.srv.ualberta.ca/user/view.php?id=201462&course=31986) - Tuesday, 22 November 2016, 9:55 AM

Abram : We have already switched to postgresql as I mentioned last time but the problem is still there.

 Jingjiao : Follow this tutorial which is the latest one: https://devcenter.heroku.com/articles/heroku-postgresql

In particular, instead of using this:

heroku addons:add heroku-postgresql:dev

use this :

heroku addons:create heroku-postgresql:hobby-dev

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**Re: Flask SQL-Alchemy database problems on Heroku**

by [Abram Hindle](https://eclass.srv.ualberta.ca/user/view.php?id=1001&course=31986) - Tuesday, 22 November 2016, 10:36 AM

Occam's razor is that it is your fault and it's a bug within your code. Write a test to see if you can replicate the behaviour and then solve it. While heroku itself can have bugs it is unlikely one so severe as this would go unnoticed.

SQL Alchemy will delete rows if you delete them from a query result. So debug your SQL calls.

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**Re: Flask SQL-Alchemy database problems on Heroku**

by [Touqir Sajed](https://eclass.srv.ualberta.ca/user/view.php?id=201462&course=31986) - Tuesday, 22 November 2016, 10:51 AM

Well, when we run the app on our laptops, it works fine. We can show it. I also checked the API calls that either retrieves an entry or creates an entry within the database and none of them have delete commands inside them. In fact we rarely use delete commands(in the whole APP) as we usually dont need to do so.  Another observation is that when we go to the admin page and create an entry from there, sometimes that newly created entry does not show up and its kinda random when it shows that entry. Its as if the database behaves weirdly, sometimes giving access to a record while other times it simply wont.