

Snowflake cloud Integration with Python/Flask

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Snowflake cloud Integraion with Python/flask

Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Mostly used in Data-science and machine-learning and flask is a python framework This means flask provides you with tools, libraries and technologies that allow you to build a web application. This web application can be some web pages, a blog, a wiki or go as big as a web-based calendar application or a commercial website. On other hand Snowflake Cloud is a Snowflake is an analytic data warehouse provided as Software-as-a-Service (SaaS). Snowflake provides a data warehouse that is faster, easier to use, and far more flexible than traditional data warehouse offerings.

Snowflake's data warehouse is not built on an existing database or "big data" software platform such as Hadoop. The Snowflake data warehouse uses a new SQL database engine with a unique architecture designed for the cloud. To the user, Snowflake has many similarities to other enterprise data warehouses, but also has additional functionality and unique capabilities.

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Business Requirement

The main objective of this project is that store data in a place where there is no chance to lose..thats why need to store data in a cloud

Solutions:

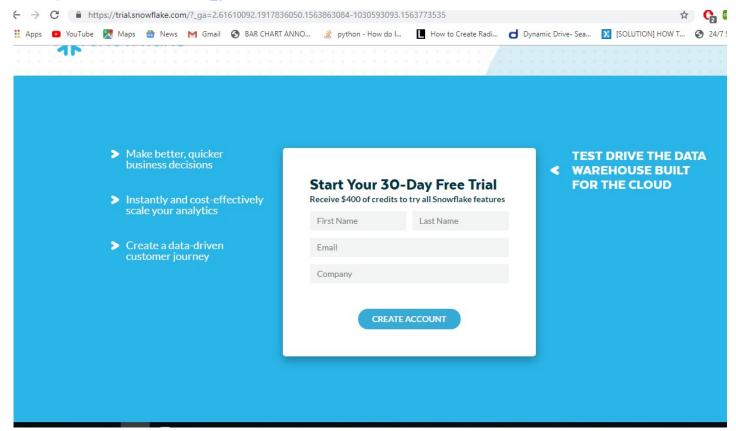
Note: In this document we explain step by step Integration between Python/flask and Snowflake (To Insert data into snowflake cloud) using python connector.

Steps:

Create a trail account on Snoflake

We can create account from below URL-

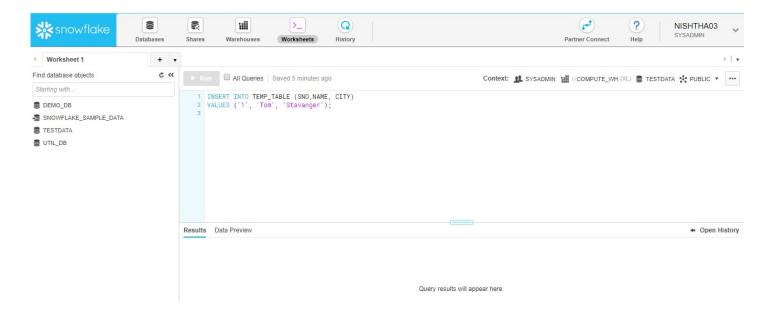
Link: https://trial.snowflake.com/? ga=2.61610092.1917836050.1563863084-1030593093.1563773535



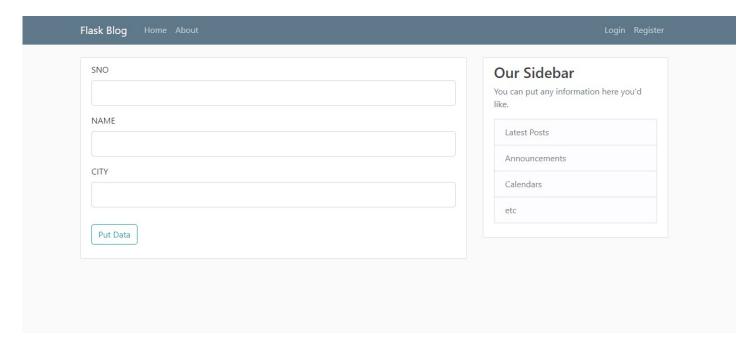
Fill up required information and click on create account...you receive a confirmation mail. For registered email id with username and one time password...When you click on a link it will redirect to a password rset page once you successfully set your password it will redirect to a login page



Once you have succefully logged in with valid user name and password..it will redirect to a dashboard where you can create a database.



Insert Data Page



This page was designed in Flask and as per requirement once user fill form and put data button need to Insert new data in Snowflake.

Code to save data into Snowflake table from Insert data page.

Below code will help you to store data into Snowflake.

```
username='nishtha03'
password='************
account='dg29137.us-east-1'
warehouse='computer_wh'
database='TESTDATA'
ctx=sf.connect(user=username, password=password, account=account)

@app.route("/snow",methods=['GET', 'POST'])
def test_connection():
    form = SnowflakeForm()
    if form.validate_on_submit():
        SNO = request.form.get("SNO")
        print(SNO)
        NAME = request.form.get("NAME")
        print(NAME)
        CITY = request.form.get("CITY")
        print(CITY)
        cursor = ctx.cursor()

        ctx.cursor().execute("INSERT INTO TESTDATA.PUBLIC.TEMP_TABLE(SNO,NAME, CITY)

values(%s, %s, %s)", (SNO,NAME,CITY))

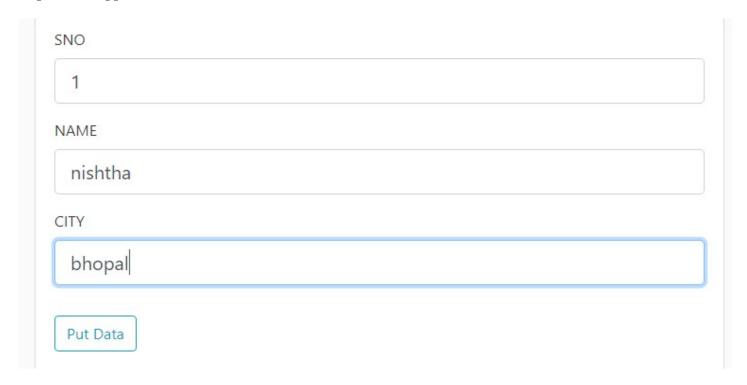
        cursor.close()
        flash('Your data has been submitted!', 'success')
        return render template('snowflake.html', title='Snow',form=form)
```

Testing:

Steps to test Integartion

Step1: Start Xampp Server

Step 2: Run application and fill details



Step 3: Click on Put data Button.

Result stored into Snowflake Table.

