Python & MySQL

Create Connection

Start by creating a connection to the database.

Use the username and password from your MySQL database:

```
import mysql.connector

mydb = mysql.connector.connect(
host="localhost",
user="yourusername",
password="yourpassword",
database="mydatabase"
)
```

Create demo database

Use this SQL script for creating demo database:

```
create database sensedata;

create table hatdata (
    id int not null AUTO_INCREMENT,
    createdate datetime,
    temp double,
    primary key (id))
```

Insert Into Table

To insert data into MySQL table, use the *INSERT INTO* statement.

Install the MySQL Python connector with:

```
pip install mysql-connector-python
```

Create a Python file with this content:

```
# Imports
import mysql.connector
import ssl
import datetime
from sense_hat import SenseHat
from time import sleep

# Database connector
mydb = mysql.connector.connect(
host="localhost",
user="pi",
password="xxxxx",
database="sensedata")

# Sense
sense = SenseHat()

# Database
mycursor = mydb.cursor()

while True:
        # Date
        createdate = datetime.datetime.now()

        # Temp data
        temp = sense.get_temperature()

        # Get data
        sql = "INSERT INTO hatdata (createdate, temp) VALUES (%s, %s)"
        val = (createdate, temp)

        # Insert data
        mycursor.execute(sql, val)
        mydb.commit()

        # Pause before next insert
        sleep(0.5)
```

Workbench

Open Workbench and check if the data is inserted.

```
select * from hatdata;
```