Aaron Perkel
CS2210
10/27/23
Lab 06

Aaron Perkel's Data

ID	Timestamp	Value C	Value F
20	2023-10-07 11:45:31.923774	26.875	80.375
21	2023-10-07 11:55:32.052426	27.125	80.825
22	2023-10-07 12:05:32.177512	26.8125	80.2625
23	2023-10-07 12:15:32.236578	26.5625	79.8125
24	2023-10-07 12:25:32.353871	26.5	79.7
25	2023-10-07 12:35:32.482459	26.5	79.7
26	2023-10-07 12:45:32.610356	26.375	79.475
27	2023-10-07 12:55:32.759381	26.375	79.475
28	2023-10-07 13:05:32.884552	26.375	79.475
29	2023-10-07 13:15:32.923627	26.5	79.7
30	2023-10-07 13:25:32.977720	26.5625	79.8125

15. Webpage

```python
from flask import *
import mysql.connector
import json

app = Flask(__name__)

credentials = json.load(open("credentials.json", "r"))


@app.route('/temp', methods=['GET'])
def temp():
    database = mysql.connector.connect(
        host=credentials["host"],
        user=credentials["user"],
        passwd=credentials["password"],
        database=credentials["database"]
    )
    cursor = database.cursor()

    # Your query to return records with ID 20 through 30 [inclusive]
    # from the test_data table
    query = "SELECT * FROM test_data WHERE ID >= 20 AND ID <= 30"

    cursor.execute(query)
    data = cursor.fetchall()

    cursor.close()
    database.close()
    return render_template("temp_chart.html", data=data, name='Aaron Perkel')


@app.route('/', methods=['GET'])
def default():
    return redirect(url_for('temp'))
```

app.py

```
MariaDB [raspberrypi]> SELECT * FROM test_data
    -> ;
+-----+----------------------------+---------+---------+
| id  | timestamp                  | value_c | value_f |
+-----+----------------------------+---------+---------+
|   1 | 2023-10-07 13:23:42.466009 | 25.25   | 77.45   |
|   2 | 2023-10-07 13:32:47.340875 | 25.125  | 77.225  |
|   3 | 2023-10-07 13:33:42.590030 | 25.125  | 77.225  |
|   4 | 2023-10-07 13:42:47.407191 | 25.3125 | 77.5625 |
|   5 | 2023-10-07 13:43:42.716342 | 25.375  | 77.675  |
|   6 | 2023-10-07 09:25:30.379832 | 27.125  | 80.825  |
|   7 | 2023-10-07 09:35:30.518700 | 27.75   | 81.95   |
|   8 | 2023-10-07 09:45:30.590510 | 28.1875 | 82.7375 |
|   9 | 2023-10-07 09:55:30.718981 | 27.4375 | 81.3875 |
|  10 | 2023-10-07 10:05:30.796178 | 27.375  | 81.275  |
|  11 | 2023-10-07 10:15:30.924943 | 27.0625 | 80.7125 |
|  12 | 2023-10-07 10:25:30.996448 | 26.875  | 80.375  |
|  13 | 2023-10-07 10:35:31.145519 | 26.6875 | 80.0375 |
|  14 | 2023-10-07 10:45:31.188277 | 27      | 80.6    |
|  15 | 2023-10-07 10:55:31.256467 | 27.125  | 80.825  |
|  16 | 2023-10-07 11:05:31.399698 | 27.25   | 81.05   |
|  17 | 2023-10-07 11:15:31.527850 | 27.125  | 80.825  |
|  18 | 2023-10-07 11:25:31.653177 | 27.1875 | 80.9375 |
|  19 | 2023-10-07 11:35:31.798464 | 26.75   | 80.15   |
|  20 | 2023-10-07 11:45:31.923774 | 26.875  | 80.375  |
|  21 | 2023-10-07 11:55:32.052426 | 27.125  | 80.825  |
|  22 | 2023-10-07 12:05:32.177512 | 26.8125 | 80.2625 |
|  23 | 2023-10-07 12:15:32.236578 | 26.5625 | 79.8125 |
|  24 | 2023-10-07 12:25:32.353871 | 26.5    | 79.7    |
|  25 | 2023-10-07 12:35:32.482459 | 26.5    | 79.7    |
|  26 | 2023-10-07 12:45:32.610356 | 26.375  | 79.475  |
|  27 | 2023-10-07 12:55:32.759381 | 26.375  | 79.475  |
|  28 | 2023-10-07 13:05:32.884552 | 26.375  | 79.475  |
|  29 | 2023-10-07 13:15:32.923627 | 26.5    | 79.7    |
|  30 | 2023-10-07 13:25:32.977720 | 26.5625 | 79.8125 |
|  31 | 2023-10-07 13:35:33.051859 | 26.6875 | 80.0375 |
|  32 | 2023-10-07 13:45:33.195512 | 26.75   | 80.15   |
|  33 | 2023-10-07 13:55:33.323602 | 26.8125 | 80.2625 |
|  34 | 2023-10-07 14:05:33.378471 | 26.9375 | 80.4875 |
|  35 | 2023-10-07 14:15:33.501908 | 26.9375 | 80.4875 |
|  36 | 2023-10-07 14:25:33.618357 | 26.9375 | 80.4875 |
|  37 | 2023-10-07 14:35:33.757116 | 27      | 80.6    |
|  38 | 2023-10-07 10:41:25.495970 | 26.375  | 79.475  |
|  39 | 2023-10-07 10:51:25.637018 | 26.625  | 79.925  |
|  40 | 2023-10-07 11:01:25.766511 | 26.625  | 79.925  |
|  41 | 2023-10-07 11:11:25.827236 | 26.75   | 80.15   |
|  42 | 2023-10-07 11:21:25.953650 | 26.375  | 79.475  |
|  43 | 2023-10-07 11:31:26.075024 | 26      | 78.8    |
|  44 | 2023-10-07 11:41:26.201470 | 25.75   | 78.35   |
|  45 | 2023-10-07 11:51:26.330811 | 25.4375 | 77.7875 |
|  46 | 2023-10-07 12:01:26.446684 | 25.4375 | 77.7875 |
|  47 | 2023-10-07 12:11:26.573193 | 25.6875 | 78.2375 |
|  48 | 2023-10-07 12:21:26.696544 | 25.6875 | 78.2375 |
|  49 | 2023-10-07 12:31:26.822407 | 25.5    | 77.9    |
|  50 | 2023-10-07 12:41:26.974409 | 25.1875 | 77.3375 |
|  51 | 2023-10-07 12:51:27.103761 | 25.125  | 77.225  |
|  52 | 2023-10-07 13:01:27.229451 | 25.0625 | 77.1125 |
|  53 | 2023-10-07 13:11:27.273208 | 24.9375 | 76.8875 |
|  54 | 2023-10-07 13:21:27.350781 | 24.875  | 76.775  |
|  55 | 2023-10-07 13:31:27.475163 | 24.875  | 76.775  |
|  56 | 2023-10-07 13:41:27.517213 | 24.8125 | 76.6625 |
|  57 | 2023-10-07 13:51:27.780657 | 24.8125 | 76.6625 |
|  58 | 2023-10-07 14:01:27.910357 | 24.75   | 76.55   |
|  59 | 2023-10-07 14:11:28.034499 | 24.8125 | 76.6625 |
|  60 | 2023-10-07 14:21:28.164501 | 24.875  | 76.775  |
|  61 | 2023-10-07 14:31:28.292193 | 24.875  | 76.775  |
|  62 | 2023-10-07 13:45:56.804557 | 24.4375 | 75.9875 |
|  63 | 2023-10-07 13:55:56.938318 | 24.5    | 76.1    |
|  64 | 2023-10-07 14:23:10.916227 | 25.875  | 78.575  |
|  65 | 2023-10-07 14:33:11.317729 | 26.1875 | 79.1375 |
|  66 | 2023-10-07 14:43:11.441697 | 26.25   | 79.25   |
|  67 | 2023-10-07 14:53:11.570433 | 26.375  | 79.475  |
|  68 | 2023-10-07 15:03:11.669291 | 26.125  | 79.025  |
|  69 | 2023-10-07 15:13:12.006381 | 26.125  | 79.025  |
|  70 | 2023-10-07 15:23:12.111562 | 26      | 78.8    |
|  71 | 2023-10-07 15:33:12.209336 | 26      | 78.8    |
|  72 | 2023-10-07 15:43:12.333209 | 26      | 78.8    |
|  73 | 2023-10-07 15:53:12.423504 | 25.875  | 78.575  |
|  74 | 2023-10-07 09:56:10.956754 | 23.5625 | 74.4125 |
|  75 | 2023-10-07 09:56:10.958988 | 23.5632 | 74.3112 |
+-----+----------------------------+---------+---------+
75 rows in set (0.002 sec)
```

12. Table Contents