from flask import Flask, render_template

app = Flask(__name__)

@app.route("/")
def index():
    return render_template("index.html")
Past headlines

For headlines posted prior to the past seven days, click here.
sessions
GET / HTTP/1.1
Host: gmail.com

...
GET / HTTP/1.1
Host: gmail.com

...
GET / HTTP/1.1
Host: gmail.com
Cookie: session=value
...
databases
SQL
BLOB
INTEGER
  smallint
  integer
  bigint
NUMERIC
REAL
TEXT
BLOB
INTEGER
NUMERIC
REAL
  real
    double precision
TEXT
BLOB
INTEGER
NUMERIC
  boolean
date
datetime
numeric(scale,precision)
time
timestamp
REAL
TEXT
CREATE ... 
DELETE ... 
INSERT ... 
SELECT ... 
UPDATE ... 
...
sqlite3
CREATE TABLE 'registrants'
('id' integer PRIMARY KEY, 'name' varchar(255), 'dorm' varchar(255))

INSERT INTO "registrants" ("id", "name", "dorm")
VALUES(1, 'David', 'Matthews')

SELECT * FROM "registrants"

UPDATE "registrants" SET "name" = 'David Malan' WHERE id = 1

DELETE FROM "registrants" WHERE id = 1

...
JOIN
WHERE
...

...
PRIMAR KEY
UNIQUE
INDEX
FOREIGN KEY
AUTOINCREMENT
NOT NULL
AVG
COUNT
MAX
MIN
SUM

...
db = cs50.SQL("sqlite:///lecture.db")
race conditions
BEGIN TRANSACTION
COMMIT
ROLLBACK
SQL injection attacks
Login required

You may establish Yale authentication now in order to access protected services later.

NetID: [Input field]

Password: [Input field]

 Warn me before logging me in to other sites.

Login
Please Log In

To log in, please select your login type from the tabs below and enter your credentials. If you're not sure what login type to use, look here for how you login with HarvardKey.

<table>
<thead>
<tr>
<th>HarvardKey</th>
<th>HUID</th>
<th>eCommons</th>
<th>XID</th>
</tr>
</thead>
</table>

Login Name (in the form of an email address):

me@exampleemailprovider.com

Password:

Login
Please Log In

To log in, please select your login type from the tabs below and enter your credentials. If you're not sure what login type to use, look here for how you login with HarvardKey.

| HarvardKey | HUID | eCommons | XID |

Login Name (in the form of an email address):
me@examplemailprovider.com

Password:
' OR '1' = '1

Login
username = request.form.get("username")
password = request.form.get("password")

db.execute(f"SELECT * FROM users
WHERE username = '{username}' AND password = '{password}'")
username = request.form.get("username")
password = request.form.get("password")

db.execute("SELECT * FROM users
WHERE username = 'me@examplemailprovider.com' AND password = '__OR__'1' = '1'")
username = request.form.get("username")
password = request.form.get("password")

db.execute("SELECT * FROM users
WHERE username = :username AND password = :password",
username=username, password=password)
username = request.form.get("username")
password = request.form.get("password")

db.execute("SELECT * FROM users
WHERE username = 'me@examplemailprovider.com' AND password = '\" OR '\1\' = '\1\'")
ZU 0666 ', 0, 0); DROP DATABASE TABLE
Hi, this is your son's school. We're having some computer trouble.

Oh, dear — did he break something? In a way—

Did you really name your son Robert?); DROP TABLE Students;--?

Oh, yes. Little Bobby Tables, we call him.

Well, we've lost this year's student records. I hope you're happy.

And I hope you've learned to sanitize your database inputs.
<table>
<thead>
<tr>
<th>Symbol</th>
<th>Name</th>
<th>Shares</th>
<th>Price</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFLX</td>
<td>Netflix Inc.</td>
<td>1</td>
<td>$301.78</td>
<td>$301.78</td>
</tr>
<tr>
<td>CASH</td>
<td></td>
<td></td>
<td></td>
<td>$9,698.22</td>
</tr>
</tbody>
</table>

$10,000.00

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This is CS50