

Electrical Engineering Department, 2nd floor Universitas Indonesia Depok, 16424

Nama: Yogie Wisesa NPM: 1806148851

PRAKTIKUM SISTEM BASIS DATA Modul ke-8 CS

```
Create database yogie_10;
    \c yogie_10;
                    eate database yogie_10;
     CREATE DATABASE
     oostgres=# \c yogie_10;
      ou are now connected to database "yogie_10" as user "postgres"
1. Buat tabel
    create table users (
    id serial primary key,
    username varchar(20) unique not null,
    password text not null,
    is admin boolean not null
    );
    create table data covid (
    id serial primary key,
    kota varchar(20) unique not null,
    jumlah_kasus int not null
    );
    yogie_10=# create table users (
yogie_10(# id serial primary key,
yogie_10(# username varchar(20) unique not null,
     yogie_10(# username varchar(20) uniq
yogie_10(# password text not null,
yogie_10(# is_admin boolean not null
yogie_10(# );
     CREATE TABLE
```

yogie_10=#
yogie_10=# create table data_covid (
yogie_10(# id serial primary key,

ogie_10=#



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2. Masukkan 3 data bebas

```
insert into data_covid (kota, jumlah_kasus) values
('Jakarta', 180),
('Bogor', 614),
('Bandung', 8851);

yogie_10=# insert into data_covid (kota, jumlah_kasus) values
yogie_10=# ('Jakarta', 180),
yogie_10=# ('Bogor', 614),
yogie_10=# ('Bandung', 8851);
INSERT 0 3
```

3. npm install --save express

npm install --save express-session

```
C:\Users\pc\Documents\sbd\server>npm install --save express
> bcrypt@5.0.0 install C:\Users\pc\Documents\sbd\server\node modules\bcrypt
> node-pre-gyp install --fallback-to-build
node-pre-gyp WARN Using needle for node-pre-gyp https download
[bcrypt] Success: "C:\Users\pc\Documents\sbd\server\node_modules\bcrypt\lib\binding\napi-v3\bcrypt_lib.node" is ins
talled via remote
> nodemon@2.0.6 postinstall C:\Users\pc\Documents\sbd\server\node_modules\nodemon
> node bin/postinstall || exit 0
Love nodemon? You can now support the project via the open collective:
 > https://opencollective.com/nodemon/donate
npm WARN server@1.0.0 No description
npm WARN server@1.0.0 No repository field.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.1.3 (node_modules\fsevents):
     NARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.1.3: wanted {"os":"darwin","arch
:"any"} (current: {"os":"win32","arch":"x64"})
+ express@4.17.1
added 247 packages from 193 contributors and audited 248 packages in 6.129s
15 packages are looking for funding
  run `npm fund` for details
found 0 vulnerabilities
C:\Users\pc\Documents\sbd\server>npm install --save express-session
npm WARN server@1.0.0 No description
npm WARN server@1.0.0 No repository field.

npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.1.3 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.1.3: wanted {"os":"darwin","arch"
:"any"} (current: {"os":"win32","arch":"x64"})
+ express-session@1.17.1
updated 1 package and audited 248 packages in 1.899s
15 packages are looking for funding
  run `npm fund` for details
found 0 vulnerabilities
```



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npm install --save body-parser

npm install --save brycpt

```
\pc\Documents\sbd\server>npm install --save body-parser
         server@1.0.0 No description
    WARN server@1.0.0 No repository field.
nom
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.1.3 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.1.3: wanted {"os":"darwin","arch
:"any"} (current: {"os":"win32","arch":"x64"})
+ body-parser@1.19.0
updated 1 package and audited 248 packages in 1.29s
15 packages are looking for funding
 run `npm fund` for details
found 0 vulnerabilities
C:\Users\pc\Documents\sbd\server>npm install --save bcrypt
> bcrypt@5.0.0 install C:\Users\pc\Documents\sbd\server\node_modules\bcrypt
> node-pre-gyp install --fallback-to-build
node-pre-gyp WARN Using needle for node-pre-gyp https download
[bcrypt] Success: "C:\Users\pc\Documents\sbd\server\node modules\bcrypt\lib\binding\napi-v3\bcrypt lib.node" is ins
talled via remote
        server@1.0.0 No description
npm WARN server@1.0.0 No repository field.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.1.3 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.1.3: wanted {"os":"darwin", "arch'
:"any"} (current: {"os":"win32","arch":"x64"})
+ bcrypt@5.0.0
updated 1 package and audited 248 packages in 4.79s
14 packages are looking for funding
  run `npm fund` for details
found 0 vulnerabilities
```

npm install --save pg

```
C:\Users\pc\Documents\sbd\server>npm install --save pg

npm WARN
n
```



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4. client connect

```
//Insiasi koneksi ke database
const db = new Client({
    user: "postgres",
    password: "",
    host: "localhost",
    port: 5432,
    database: "yogie_10"
});
```

Log jika terhubung

```
db.connect((err) =>{
    if (err) {
        console.error(err);
        return;
    }
    console.log('Database Connected');
});
```

```
C:\Users\pc\Documents\sbd\server>node index.js
App Started on PORT 3000
Database Connected
```

5. masukkan query

```
const query = `select * from data_covid`;
db.query(query, (err, results) => {
    if (err) {
        console.error(err.detail);
        res.send(err.detail)
        return;
    }
```

6. registrasi, hashing, dan error

```
$.post('/register', { username: username, pass: pass }, function(data) {
    if (data === 'done') {
        window.location.href = '/admin';
        window.alert('Registrasi Sukses');
    }
    if (data === 'err') {
        window.location.href = '/';
        window.alert('Registrasi Gagal');
    }
});
```



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```
router.post('/register', (req, res) => {
    temp = req.session;
    temp.username = req.body.username;
    temp.password = req.body.pass;
        if (temp.username == '' || temp.password == '') {
            res.end('err');
            return res.status(403).send("tidak boleh kosong");
        const hashedPass = bcrypt.hash(temp.password, 10, function (err, hashedPass) {
        const signUp =
        `INSERT INTO users(username, password, is admin) VALUES ('${temp.username}',
        '${hashedPass}', false)`;
        db.query(signUp, (err, results) => {
            if (err) {
                console.error(err);
                res.end('err');
                return:
        });
        console.log(`data '${temp.username}' berhasil diregistrasi`);
        res.end('done');
        });
    catch (error) {
        console.error(err.message);
        res.status(403).send("Error data");
});
```

```
localhost:3000 says
Registrasi Gagal
```

- 7. a
- 8. welcome

```
res.write()
  `<h1> Welcome ${temp.username} </h1>
  <a> Jumlah kunjungan ${temp.visits}</a>
  <h5>Refresh page to increase visits</h5>
```

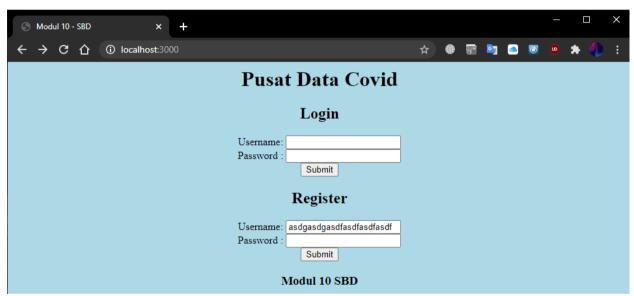


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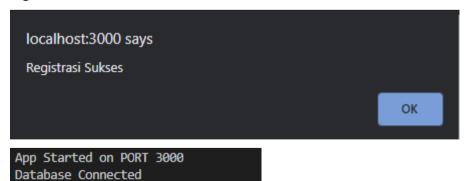
9. npm start

```
C:\Users\pc\Documents\sbd\server>npm start
> server@1.0.0 start C:\Users\pc\Documents\sbd\server
> nodemon index.js

[nodemon] 2.0.6
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node index.js`
App Started on PORT 3000
Database Connected
```



10. registrasi



data 'Yogie' berhasil diregistrasi



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11.