PHP and MySQL the basics in 15 slides

But first

- Principle of Least Privilege
 - A user (or process) should have the lowest level of privilege required in order to perform his/her assigned task.

Principle of Least Privilege

- not -> root
 - can change everything

```
CREATE DATABASE IF NOT EXISTS aliendb;
GRANT ALL PRIVILEGES ON aliendb.* to 'alienuser'@'localhost'identified by 'alien';
```

ROOT have password?

• if not

SET PASSWORD FOR 'root'@'localhost' = PASSWORD('f3jga908');

Back to PHP & MySQL

connect with mysqli_connect()
 assemble the query string
 execute the query with mysqli_query()
 close the connection with mysqli_close()

1. connect with mysqli_connect()

```
1. 2 3 4

$db = mysqli_connect('localhost', 'alienuser', 'alien', 'aliendb')
or die ("ERROR: connecting to mysql server!");
```

- 1. The SQL server location (IP address or hostname)
- 2. The database user name
- 3. the user's password
- 4. The database name

db_connect.php

(7) add this to report2. php result: see nothing if it works error message if error

connect with mysqli_connect()
 assemble the query string
 execute the query with mysqli_query()
 close the connection with mysqli_close()

assemble the query string

```
$query= "INSERT INTO abductions
(firstname, lastname) VALUES('Ann',
'Smith')";
$query2= "SELECT * FROM abductions";
```

1. connect with mysqli_connect()
2. assemble the query string
3. execute the query with mysqli_query()
4. close the connection with mysqli_close()

execute the query with mysqli_query()

```
$result = mysqli_query($db, $query)
or die("Error Querying Database");
```

1. connect with mysqli_connect()
2. assemble the query string
3. execute the query with mysqli_query()
4. close the connection with mysqli_close()

close the connection with mysqli_close()

mysqli_close(\$db);

Full Recipe

```
$db = mysqli_connect('localhost', 'alienuser', 'alien', 'aliendb')
    or die ("ERROR: connecting to mysql server!");

$query= "INSERT INTO programmers (name, language) VALUES('Ann',
    'Python')";

$result = mysqli_query($db, $query)
    or die("Error Querying Database");

mysqli_close($db);
```

```
$query = "SELECT * FROM abduction_reports ORDER BY
                        date_abducted";
while($row = mysqli fetch array($result)) {
  $firstname = $row['firstname'];
  $lastname = $row['lastname'];
  $date = $row['date abducted'];
  $city = $row['city'];
  $state = $row['state abducted'];
  echo "$date$firstname $lastname\n";
```

Tasks

- 1. source provided sql file
- 2. rename report2. php and copy report2mysql. php to report2. php
- 3. test should get name in db and see list of abductions
- 4. add date and location into db.
- 5. fix list. php to show date and location in list of abductions.





Partner task

• create simple blog site. (I will demo example)