

Connecting PHP with MySQL

Anant Narayanan
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What is a Database?

- Collection of tables
- Tables are collections of Records
- Record is a collection of fields
- <name>, <id>, <semester>, <department>

MySQL

- A relational database management system
- Easy to talk to in PHP

SQL

- Structured Query Language
- Standard interface for all relational databases
- Provides standard CRUD operations, apart from a variety of others

Examples

- `SELECT * FROM students`
- `UPDATE students SET id = '0'+id WHERE length(id) = 5`
- `DELETE * FROM students WHERE semester > 8`
- Let's try it on the command-line

phpMyAdmin

- Don't like the command line?
- Let's try this one out

PHP <--> MySQL

- The mysql_* series of functions are available
- Usual order of events:
 - Connect with User/Password - mysql_connect()
 - Select Database - mysql_select_db()
 - Execute Queries - mysql_query()

Example

```
<?php
```

```
mysql_connect('localhost', 'root', 'mypassword');  
mysql_select_db('cake');
```

```
$query = "SELECT fname, lname FROM students WHERE  
semester = 3 AND department_id = 'CP'";
```

```
$result = mysql_query($query);  
echo '<html><body><table>';  
echo '<tr><td>First Name</td><td>Last Name</td>';  
while ($name = mysql_fetch_assoc($result)) {  
    echo '<tr><td>'.$name['fname'].'</td>';  
    echo '<td>'.$name['lname'].'</td></tr>';  
}  
echo '</table></body></html>';
```

```
?>
```


Simple!

Questions?

Thank You!