PHP+MYSQL

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PHP FOR DATABASE ACCESS

- Connect to the MySQL server

  - $connection = mysqli_connect("host","username","passworkd","DB");

- Perform SQL operations

- Disconnect from the server

  - mysqli_close($connection);

ERROR HANDLING

- All mysql_ functions return NULL (or false) if they fail.
- Several functions are helpful in graceful failure
    - die(*string*) - halts and displays the string
    - mysqli_connect_error() - returns number of error

ERROR HANDLING EXAMPLES

```php
$conn=mysqli_connect("localhost","root","",”db");
if(!$conn){
  die(mysqli_connect_error());
}else {
  echo "successfull";
}
```

BUILDING A QUERY

- Directly
  - $query = 'select * from *tablename*';
- Using input information
  - $input = $_POST['*var*'];
  - $query = "select * from *tablename* where column=$input";

RUNNING A QUERY

- mysql_query returns a result handle

  $result = mysqli_query($connection, $query)

- mysql_num_rows indicates the number of rows returned

  $num_rows = mysqli_num_rows($result)

- mysql_fetch_array creates array/hash of result

  For ($n=0; $n<$num_rows;$n++)

  $row = mysqli_fetch_array($result)

RESULT OF FETCH_ARRAY

- Contains both numeric and index tags

- Values are duplicated

- Example:

  - Query: select surname, city from customers;

  - Row: (0=>'Walker', 'surname'=>'Walker', 1=>'Kent', 'city'=>'Kent');

PRINTING THE COMPLETE ROW

- By number

for ($i=0; $i<mysqli_num_fields($result); $i++)

    echo $row[$i] . " ";

- By field

echo $row['surname'] . ' ' . $row['city'];

INSERTING INTO A DATABASE

- Collect data from a form

- Validate data (JavaScript, PHP or both)

- Create a query

$query = "insert into customer set cust_id = NULL, " . "surname =\"" . $surname ."\"" …

- Run the query

mysql_query($query, $db);