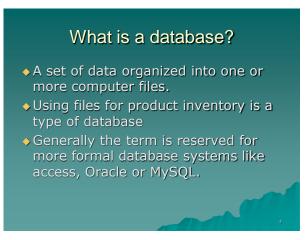
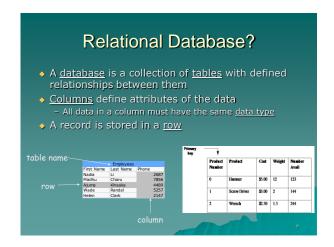
## Vietnam and Japan Joint ICT HRD Program ICT 5 Web Development Chapter 6.1. Using MySQL with PHP Nguyen Thi Thu Trang trangntt-fit@mail.hut.edu.vn

### Objectives To understand the advantages of using databases to store Web data To learn how to prepare a MySQL database for use with PHP To learn how to store, retrieve, and update data in a MySQL database

### Content 1. Database and MySQL Overview 2. Basic SQL commands 3. Creating a table 4. Inserting data to a table 5. Retrieving data from a table 6. Updating data for a table





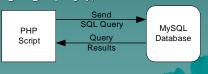


### Which Database System

- PHP works with a variety of databases that include:
  - Oracle
  - Access
  - Ingres
  - -SQL Server
  - -MySQL
- Will use MySQL since simple to use, free and very popular.

### Using A Query Language When using a database, use a

- When using a database, use a separate query language to work with database
- Within MySQL, use Structured Query Language (SQL), to access database



### Content

- 1. Database and MySQL Overview
- ⇒ 2. Basic SOL commands
  - 3. Creating a table
  - 4. Inserting data to a table
  - 5. Retrieving data from a table
  - 6. Updating data for a table

### 2. Basic SQL commands

- Connecting to MySQL from the Command Line mysql -uusername -p

E.g.:

>mysql -uroot

- To EXIT MySQL: EXIT;

### 2. Basic SQL Commands (2)

- SQL statements end with a semicolon
- View databasesSHOW DATABASES;
- Creating a database
   CREATE DATABASE trii;
- Importing a database:

mysql -uusername -ppassword
databasename < filename.sql

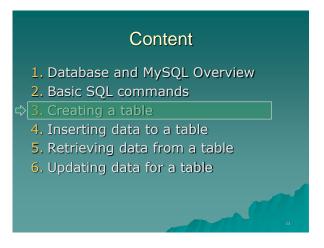
E.g.:

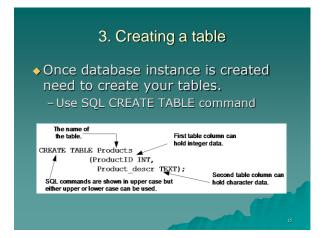
mysql -uroot trii < trii.sq

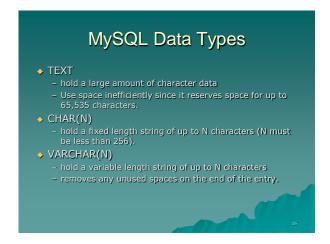
### 2. Basic SQL Commands (2)

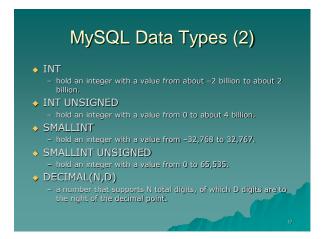
- Use database databasename
   USE databasename;
- Display all tables in a database SHOW TABLES;
- View column details for a table
   DESC tablename;

### Creating a Database Instance Once you have access to a server with MySQL installed, need to get a database instance created for you. Usually created by a database administrator Creates a database instance, userid and password.



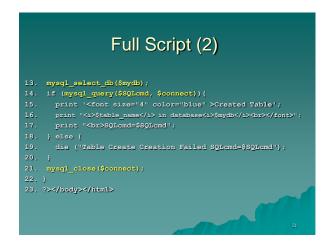


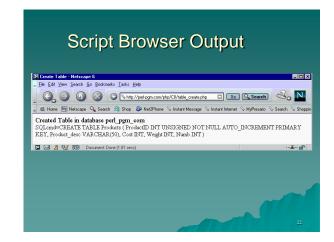


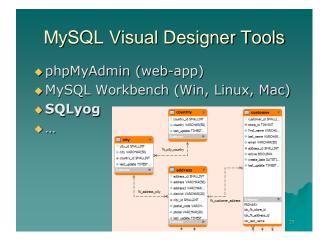


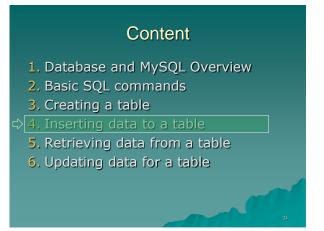


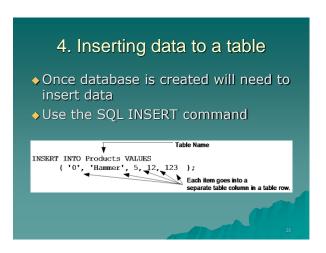
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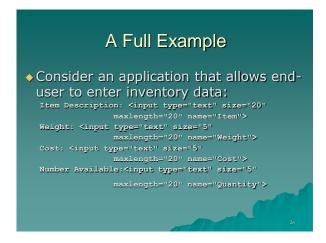






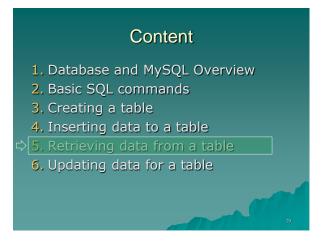


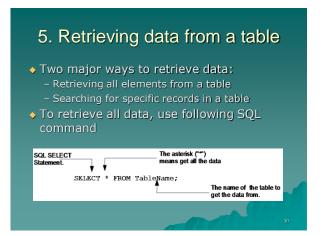


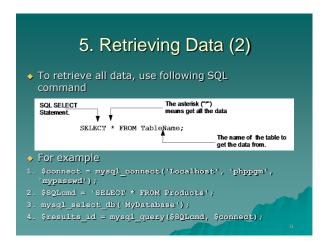












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```

```
A Script Example (2)

18. while ($row = mysql_fetch_row($results_id)){

19. print '
20. foreach ($row as $field) {

21. print "$field
";

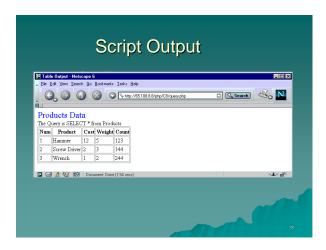
22. }

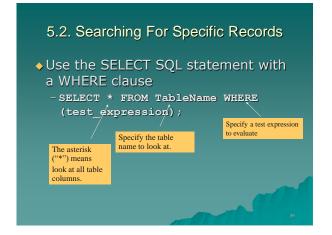
23. print '
24. }

25. } else { die ("Query=$query failed!"); }

26. mysql_close($connect);

27. ?> </body></html>
```



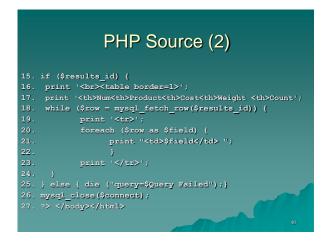


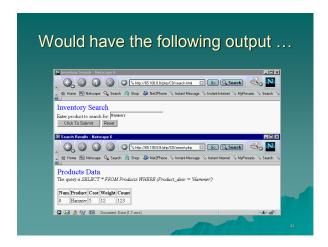
### Selected WHERE CLAUSE Test Operators Operator SQL Query Example table that have a Product desc column (Product\_desc = 'Hammer'); with a value equal to Hammer. SELECT \* FROM Products Retrieve those rows from the Products WHERE (Cost > '5'); table that have a Cost column with a value greater than 5. SELECT \* FROM Products Retrieve those rows from the Products WHERE (Numb < '3'); table that have a Numb column with a value less than 3. SELECT \* FROM Products WHERE (Cost <= '3'); Retrieve those rows from the Products table that have a Cost column with a value less than or equal to 3. SELECT \* FROM Products Retrieve those rows from the Products WHERE (Weight >= '10'); table that have a Weight column with a value greater than or equal to 10.

### Consider the following example ... The following example searches a hardware inventory database for a specific part name entered by the user. The form uses the following key HTML form element definition. -<input type="text" name="Search" size="20">

```
PHP Source

1. <a href="https://doi.org/10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2016/j.psp.10.2
```





### Content 1. Database and MySQL Overview 2. Basic SQL commands 3. Creating a table 4. Inserting data to a table 5. Retrieving data from a table 6. Updating data for a table

# 6. Updating data for a table Use SQL UPDATE command when needing to update a database record: Specify the name of the table to update. UPDATE Table\_name SET coll=chng\_express1,col2=chng\_express2, ... WHERE test\_expression Specify one or more table column to receive the results of an expression. Optionally specify a WHERE and test expression.



### For Example ... The following looks through the Products table for values of Product\_desc equal to Hammer. When it finds it, it decrements the Count column value by 1. UPDATE Products SET Count=Count-1 WHERE 'Product\_desc=Hammer'

```
A Full Example ...

• Consider the following example

- Displays current inventory

- Asks end-user to decrement value for 1 item

- Uses the following HTML

Hammer: <input type="radio" name="Product" value="Hammer">

Screwdriver: <input type="radio" name="Product" value="Screwdriver">

Wrench: <input type="radio" name="Product" value="Wrench">

Wrench: <input type="radio" name="Product" value="Wrench">

**Wrench: <input type="radio" name="Wrench" name="Wrench"
```

```
Full Example

1. <a href="https://head><a href="https://head>chody>">https://head><a href="https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">https://head>chody>">ht
```

```
A Full Example (2)

14. $results_id = mysql_query($query, $connect);
15. if ($results_id){
16. Show_all($connect, $database,$table_name);
17. } else {
18. print "Update=$query failed";
19. }
20. mysql_close($connect);
```

