



**WEB DEVELOPMENT  
(3151606)**

**UNIT-6:  
DATABASE  
CONNECTIVITY  
— USING PHP**

**PREPARED BY: PROF. KRUPALI. DAVE**



# DATABASE:

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- ❑ MySQL is a database.
- ❑ You can download MySQL from <http://dev.mysql.com/downloads/mysql>.
- ❑ The data in MySQL is stored in database objects called tables.
- ❑ A table is a collection of related data entries and it consists of columns and rows.
- ❑ A query is a request to database for specific information



# DATABASE CREATION:

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## 1.) **Creating Database:**

```
mysql> CREATE DATABASE mydb;
```

## 2.) **Displaying all the database:**

```
mysql> SHOW DATABASES;
```

**O/P:** Database

mydb

mysql

Student

test

# CONT...

---

## 3.) **Selecting Particular database:**

```
mysql> USE MYDB;
```

## 4.) **Creating Table:**

```
mysql> create table student (id int(4),name varchar(20));
```

## 5.) **Display a table:**

```
mysql> show tables;
```

# CONT...

---

## 6.) Display the table fields:

```
mysql> describe student;
```

**O/P :**

Field	Type	null
id	int(4)	yes
name	varchar(20)	yes

## 7.) Insert value in the table:

```
Insert into student(id,name)values(1,'abc');
```

# CONT...

---

## 8.) **Display the content of the table:**

Select \* from student;

## 9.) **Updating the record:**

Update student set name='pqr' where id=1;

# CONT...

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## 10.) **Deleting the record:**

Delete from student where id=1;

## 11.) **Deleting the table:**

Drop table student;





# DELETING COOKIE:

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- ❑ When deleting a cookie you should assure that the expiration date is in the past.

**Ex:**

```
<?php
```

```
// set the expiration date to one hour ago
```

```
setcookie ("user", "", time()-3600);
```

```
?>
```





# CONNECTION TO SERVER(CRUD EXAMPLE):

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- ❑ `mysql_connect()` function is used to establish the connection between PHP and MySQL.
- ❑ **Syntax** of `mysql_connect()` is,  
**`mysql_connect ("servername","username", "password");`**



**Ex:**

```
<?php
```

```
$con = mysql_connect ("localhost", "sa", "shree");
```

```
if (!$con)
```

---

```
{
```

```
    die ('Could not connect: ' .mysql_error());
```

```
}
```

```
// some code
```

```
?>
```

- ❑ The `mysql_error()` function is used to obtain the error messages if any command gets failed

# CLOSING DATABASE:

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- The database can be closed using the function `mysql_close()`;

**Ex:** `<?php`

```
$con = mysql_connect("localhost","sa","shree");
```

```
if (!$con)
```

```
{
```

```
die('Could not connect: ' . mysql_error());
```

```
}
```

```
// some code
```

```
mysql_close ($con);
```

```
?>
```



# CREATING DATABASE

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- Using `mysql_query()` function we can create a database.

□ **Ex:**

```
$con=mysql_connect ("servername", "sa", "shree");  
mysql_query ("CREATE DATABASE student", $con);
```



# SELECTING DATABASE

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- ❑ `Mysql_select_db ("student", $con);`

- ❑ Listing Database:

`Mysql_list_db($con);`

- ❑ Listing Table Names:

`Mysql_list_tables(); or mysql_query();`

# CREATE TABLE:

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```
<? php
    // Create table
mysql_select_db ("student", $con);
$sql = "CREATE TABLE Student_Data
(
    Id int(5),
    Name varchar(15),
    Age int;
)";
mysql_query($sql,$con); // Execute query
mysql_close($con); //close database
?>
```



# INSERTING DATA:

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- The INSERT INTO statement is used to insert new records in a table.

□ **Ex:**

```
<? Php
```

```
mysql_select_db ("student", $con);
```

```
    $q= ("INSERT INTO Student_Data (Id, Name, Age) VALUES ('1', 'XYZ',  
'20')"); mysql_query ($q, $con);
```

```
mysql_close ($con);
```

```
?>
```





# ALTERING TABLE:

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- ❑ This command is useful to add, delete, changing the size of some columns or change the name of some column.

- ❑ **Ex:**

```
mysql_select_db ("mydb", $con);
```

```
$query="Alter Table student add column address varchar(30)";
```

```
mysql_query ($query, $con); // Execution query
```

```
mysql_close($con); //closing the database
```



# DROP DATABASE:

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- ❑ We can drop database using the Drop query.

- ❑ **Ex:**

```
my_sql_db ("mydb", $con); //select the database
```

```
$query="DROP DATABASE mydb";
```

```
mysql_query($query,$con); //Execution of query
```

```
mysql_close($con); //closing the database
```

# Example(retrieve data from table):

## Mysql.php

```
<?php
$dbhost = 'localhost:3036';
$dbuser = 'root';
$dbpass = '123456';

$conn = mysql_connect($dbhost, $dbuser, $dbpass);

if(! $conn ) {
    die('Could not connect: ' . mysql_error());
}

$sql = 'SELECT * from student';
mysql_select_db('mydb');
$retval = mysql_query( $sql, $conn );

if(! $retval ) {
    die('Could not get data: ' . mysql_error());
}

while($row = mysql_fetch_array($retval, MYSQL_ASSOC)) {
    echo "ID:{$row['id']} <br> ".
        "NAME : {$row['name']} <br> ";
}

echo "Fetched data successfully\n";

mysql_close($conn);
?>
```

## output

```
ID:1
NAME : abc
ID:2
NAME : DEF
Fetched data successfully
```

```
mysql> select * from student;
+-----+-----+
| id   | name |
+-----+-----+
|    1 | abc  |
|    2 | DEF  |
+-----+-----+
2 rows in set (0.02 sec)
```

## Example(update):

### Mysqlupdate.php

```
<?php
$host = 'localhost';
$user = 'root';
$pass = '123456';
$dbname = 'mydb';

$conn = mysqli_connect($host, $user, $pass,$dbname);
if(!$conn){
    die('Could not connect: '.mysqli_connect_error());
}
echo 'Connected successfully<br/>';

$sql = "UPDATE student SET name='Rahul' WHERE id=2";
if(mysqli_query($conn, $sql)){
    echo "Record updated successfully";
}else{
    echo "Could not update record: ". mysqli_error($conn);
}

mysqli_close($conn);
?>
```

### output

```
Connected successfully
Record updated successfully
```

```
mysql> select * from student;
+-----+-----+
| id  | name |
+-----+-----+
|  1  | abc  |
|  2  | Rahul|
+-----+-----+
2 rows in set (0.00 sec)
```



**THANK YOU...**