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| **DAT ABASE**  database is a structured way of storing the data.  Oracle , mysql ,microsoft  phpmyadmin is not database it is web client it is software to access database. |
| **Phpmyadmin**  **create database**  **create table set table values**  **drop tables**  **insert data in table**  **select statement** |
| **INSERT INTO table\_name VALUES (value1, value2, value3);** |
| **SELECT \* FROM table\_name;**  **SELECT \* FROM table\_name WHERE ID <= 100;**  **SELECT \* FROM student WHERE ID <= 100 LIMIT 2;**  **IS NULL will check if the field is NULL or NOT.**  **ORDER BY will order / sort the records based on the field.**  **LIKE has two wild characters:**  **% – The percent sign represents zero, one, or multiple characters**  **\_ – The underscore represents a single character**  **SQL SYNTAX:**  **SELECT \* FROM table\_name WHERE columnN IS NOT NULL**  **SELECT \* FROM table\_name WHERE columnN LIKE pattern;**  **SELECT \* FROM table\_name WHERE columnN LIKE pattern ORDER BY columnN;**  **UPDATE table\_name SET column1 = value1, column2 = value2**  **WHERE condition;**  **SET student.name = ‘Julie’ WHERE ID = 100;**  **DELETE from table\_name WHERE condition;** |
| **Mysql with pdo**  **check connection with databases**  **<?php**  **$dns = "mysql:host=localhost; dbname=schooldemo";**  **$username = "root";**  **$password = "";**  **try {**  **$db = new PDO($dns, $username, $password);**  **} catch (Exception $e) {**  **$error\_message = $e->getMessage();**  **echo "<p> ERRor messgage : $error\_message </p>";**  **}**  **?>** |
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| **Display records**  **in above code only**  **<?php**  **$query = "SELECT \* FROM student; " ;**  **dns…..**  **try {**  **$db = new PDO($dns, $username, $password);**  **$statement = $db→prepare($query); //prepare query**  **$statement→execute(); //execute query**  **while ($student = $statement->fetch()) {**  **echo "Id: " . $student['name'] . "<br>";**  **}**  **$statement→closeCursor(); //close**  **} catch (Exception $e) {**  **$error\_message = $e->getMessage();**  **echo "<p> ERRor messgage : $error\_message </p>";**  **}**  **?>** |
| **Insert records**  **in above code**  **$query = "INSERT INTO `student`(`name`, `marks`) VALUES (:name ,:marks)";**  **$statement = $db->prepare($query);**  **$statement->bindValue(':name' ,'deva', PDO::PARAM\_STR);**  **$statement->bindValue(':marks' ,89, PDO::PARAM\_INT);**  **if( $statement->execute() )**  **{**  **echo "record done";**  **}else{**  **echo "not done";**  **}**    **$statement->closeCursor();**  **} catch (Exception $e) {** |
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| **Update records**  **$query = "UPDATE `student` SET `name`=:name WHERE `rollno` = :rollno";**  **$statement->bindValue(':name', 'krunal', PDO::PARAM\_STR);**  **$statement->bindValue(':rollno', 1, PDO::PARAM\_INT);** |
| **Delete records**  **$query = "DELETE FROM `student` WHERE rollno = :rollno";**  **$statement->bindValue(':rollno', 3, PDO::PARAM\_INT);** |
| **Mysql with mysqli**  **database connection**  **<?php**  **$query = "DELETE FROM `student` WHERE rollno = :rollno";**  **//$dns = "mysql:host=localhost; dbname=schooldemo";**  **$hostname = 'localhost';**  **$dbname = 'schooldemo';**  **$username = "root";**  **$password = "";**  **try {**  **$db = new mysqli($hostname, $username, $password, $dbname);**  **if ($db->connect\_error) {**  **die("Connection Failed" . $db->connect\_error);**  **} else {**  **echo "sdsds";**  **}**  **$db->close();**  **} catch (Exception $e) {**  **$error\_message = $e->getMessage();**  **echo "<p> ERRor messgage : $error\_message </p>";**  **}**  **?>** |
| **Display records**  **$query = "SELECT \* FROM student; ";**  **$result = $db->query($query);**  **while ($student = $result->fetch\_assoc()) {**  **echo "Id: " . $student['name'] . "<br>"; }**  **insert records in mysqli**  **$marks = 30;**  **$name = 'deva';**  **$query = "INSERT INTO `student`(`name`, `marks`) VALUES ('$name',$marks)";**  **if ($db->query($query)) {**  **echo "done";**  **} else {**  **echo "not done" . db->error;**  **}** |
| **Update records in mysqli**  **$rollno = 5;**  **$name = 'rama';**  **$query = "UPDATE `student` SET `name`='$name' WHERE `rollno` = $rollno";** |
| **Delete records in mysqli**  **$rollno = 5;**  **$query = "DELETE FROM `student` WHERE rollno = $rollno";** |
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