**Practical:3**

**Aim:**

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| --- |
| Implement following code using PHP Script.  a) Create database if not exists  b) Create Table with auto increment id and necessary constraints.  c) Add records in respective Table of database.  d) Update and delete records.  e) Retrieve all records or apply specific filter to display records from table.  f) Use proper Exception Handling code which display proper error messages. |

**Program code:**

<style> body{ font-size: 20px; font-weight: bold;} </style>

<?php

// All Functions

function connect\_to\_db($host, $username, $password){

try{

// Create connection

$connection = mysqli\_connect($host, $username, $password);

echo "Database Connetion Established successfully !"."<hr>";

return $connection;

}catch(mysqli\_sql\_exception $e){

die("Connection failed: " . mysqli\_connect\_error());

}

}

function db\_query($connection,$query){

if($result = mysqli\_query($connection, $query)){

return $result;

}else{

echo "Query Failed ! @query : ". $query."<br>";

return false;

}

}

function fetch\_result($resultset){

if(!$resultset){

while($set = mysqli\_fetch\_assoc($resultset) ){

$ans[] = $set;

}

return $ans;

}else{

return false;

}

}

function print\_table($resultset){

echo "<style>table, th, td { border: 1px solid black;border-collapse: collapse;}</style> ";

echo "<table>";

echo "<tr><th>Name</th><th>Password</th></tr>";

while($row = mysqli\_fetch\_assoc($resultset)){

echo "<tr>";

echo "<td>".$row['username']."</td>";

echo "<td>".$row['hashed\_password']."</td>";

echo "</tr>";

}

echo "</table>";

}

//Connecting to database

$con = connect\_to\_db("localhost","root","root");

db\_query($con,"DROP DATABASE sample\_db");

// a. Create database if not exists

$sql = " CREATE DATABASE IF NOT EXISTS sample\_db;";

$resultObj = db\_query($con,$sql);

$result = fetch\_result($resultObj);

echo !$result ? "Database Created !" : "Database Creation Failed !";

echo "<hr>";

db\_query($con,"USE sample\_db;");

//b. Create table with auto increment id and necessary constraints

$sql = "CREATE TABLE IF NOT EXISTS user ( id int(11) NOT NULL AUTO\_INCREMENT, username varchar(45) NOT NULL, hashed\_password varchar(45) NOT NULL, PRIMARY KEY(id) );";

$resultObj = db\_query($con,$sql);

$result = fetch\_result($resultObj);

echo !$result ? "Table Created !" : "Table Creation Failed !";

echo "<hr>";

//c. Add records in respective Table of database

$sql = "INSERT INTO user(username,hashed\_password) VALUES('KKSR1','KKSR1'),('KKSR2','KKSR2'),('KKSR3','KKSR3'); ";

$resultObj = db\_query($con,$sql);

$result = fetch\_result($resultObj);

echo !$result ? "Records Inserted !" : "Records Insertion Fail !";

echo "<hr>";

//d. Update values

$sql = "UPDATE user SET username='KARAN' WHERE id=1;";

$resultObj = db\_query($con,$sql);

$result = fetch\_result($resultObj);

echo !$result ? "Table Updated !" : "Table Updation Fail !";

echo "<hr>";

// Delete Records

$sql = "DELETE FROM user WHERE id=3;";

$resultObj = db\_query($con,$sql);

$result = fetch\_result($resultObj);

echo !$result ? "Row Deleted !" : "Row Deletion Fail !";

echo "<hr>";

// e. Retrieve All records

$sql = "SELECT \* FROM user";

$resultObj = db\_query($con,$sql);

echo "User Table : <br>";

print\_table($resultObj);

?>

**Output:**

**C:\Users\acer\AppData\Local\Temp\Rar$DI31.0475507\3_main_output.tiff**