

PHP & MySQL Database (Select)

Design database to register students in the college department. DB name = **rigstedu**

Department (ID, depname) (int, varchar(30)) ID auto Increment

Student (ID, studname, age, mobile, to_day_date, depid)

(varchar(7), varchar(50), int, varchar(11), date, int)

ID = depid + first character(studname) + last character(studname)+ last two number of (mobile) + date (Note: only the day from the date, 01-31)

Display records

- 1) All records Select * from *table*;
- 2) Specify by id Select * from *table* where id=*var*;

PHP

- 1) PHP to DB connection

```
$db = new mysqli('localhost', 'root', '', 'db name');
```

- 2) SQL query

```
$q = "select * from table";
```

- 3) Execute query in DB

```
$r = $db->query($q);
```

- 4) Retrieve or display results

```
if ($r) {
```

```
  $no = $r->num_rows;
```

```
  // number of records retrieve
```

```
  for ($i=0;$i<$no;$i++) {
```

```
  //Loop
```

```
    $rec=$r -> fetch_assoc();
```

```
  //Fetch one record
```

```
    echo $rec['table_id']. " ".$rec['table_name'];
```

```
  //Display information
```

```
  }
```

```
  //end loop
```

```
else
```

```
  echo "Error";
```

```
  //Error
```

Q) Display all records in department table?

Displayalldepartment.php

```
<?php
$db=new mysqli('localhost','root','','rigstedu');
$q="select * from department";
$r=$db->query($q);
if($r)
{
    $no=$r->num_rows;
    for ($i=0;$i<$no;$i++)
    {
        $rec=$r->fetch_assoc();
        echo $rec['id']." ".$rec['depname']."<br>";
    }
}
else
    echo "error";
?>
```

1 Computer dep
2 Physics
4 Math

Q) Display records in department table specify by id?

depid.html

```
<form action="displaydepartmentbyid.php">
Department Id:<input type="number" name="t1">
<input type="submit" value="display">
</form>
```

Department Id:

Displaydepartmentbyid.php

```
<?php
$entryid=$_GET['t1'];
$db=new mysqli('localhost','root','','rigstedu');
$q="select * from department where id=$entryid";
$r=$db->query($q);
if($r)
{
    $no=$r->num_rows;
    for ($i=0;$i<$no;$i++)
    {
        $rec=$r->fetch_assoc();
        echo $rec['id']." ".$rec['depname']."<br>";
    }
}
else
    echo "error";
?>
```

2 Physics

Q) Display all records in student table?

Displayallstudent.php

```
<?php
$db=new mysqli('localhost','root','','rigstedu');
$q="select * from students";
$r=$db->query($q);
if($r)
{
    $no=$r->num_rows;
    for ($i=0;$i<$no;$i++)
    {
        $rec=$r->fetch_assoc();
        echo $rec['id']." ".$rec['studname']." ".$rec['age']." ".$rec['mobile']." ".$rec['cd']."
".$rec['depid']."<br>";
    }
}
else
    echo "error";
?>
```

```
1ai0018 ali 18 0770 2022-12-18 1
2hn0618 hussain 19 09876 2022-12-18 2
2md09 mohammed 20 07709 2022-12-18 2
4ad03 ahmed 22 09123 2022-12-18 4
4as01 abbas 21 09871 2022-12-18 4
```

Displayallstudents.php

```
<?php
$db=new mysqli('localhost','root','','rigstedu');
$q="select * from students";
$r=$db->query($q);
if($r)
{
    $no=$r->num_rows;
    for ($i=0;$i<$no;$i++)
    {
        $rec=$r->fetch_assoc();
        $iddep=$rec['depid'];
        $q1="select * from department where id=$iddep";
        $r1=$db->query($q1);
        $rec1=$r1->fetch_assoc();

        echo $rec['id']." ".$rec['studname']." ".$rec['age']." ".$rec['mobile']." ".$rec['cd']." ".$rec1['depname']."<br>";
    }
}
else
    echo "error";
?>
```

```
1ai0018 ali 18 0770 2022-12-18 Computer dep
2hn0618 hussain 19 09876 2022-12-18 Physics
2md09 mohammed 20 07709 2022-12-18 Physics
4ad03 ahmed 22 09123 2022-12-18 Math
4as01 abbas 21 09871 2022-12-18 Math
```