# Practical: 9

DATABASE CREATION PROGRAM

package project;

import java.sql.\*;

public class lm {

public static void main(String[] args) {

try {

Class.forName("com.mysql.cj.jdbc.Driver");

Connection con = DriverManager.getConnection(

"jdbc:mysql://localhost:3306/", "root", "root");

Statement stm = con.createStatement();

String str = "CREATE DATABASE school";

stm.executeUpdate(str);

System.out.println("Database created");

}

catch (Exception e) {

System.out.println(e);

}

}

}

Database created

PS C:\Users\User> mysql -u root -p

Enter password: \*\*\*\*

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 16

Server version: 9.3.0 MySQL Community Server - GPL

mysql> show databases;

+--------------------+

| Database |

+--------------------+

| book |

| demo |

| mysql |

| school |

| stud |

| student |

| sys |

+--------------------+

13 rows in set (0.044 sec)

package project;

import java.sql.\*;

public class lm {

public static void main(String[] args) {

try {

Class.forName("com.mysql.cj.jdbc.Driver");

Connection con = DriverManager.getConnection(

"jdbc:mysql://localhost:3306/school", "root", "root");

Statement stm = con.createStatement();

String str = "create table stud1(rollno int, Name varchar(10), Class varchar(10))";

stm.executeUpdate(str);

System.out.println("TABLE CREATED:");

}

catch (Exception e) {

System.out.println(e);

}

}

}

TABLE CREATED:

**MYSQL OUTPUT:**

mysql> USE SCHOOL;

Database changed

mysql> DESC stud1;

+--------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------+-------------+------+-----+---------+-------+

| rollno | int | YES | | NULL | |

| Name | varchar(10) | YES | | NULL | |

| Class | varchar(10) | YES | | NULL | |

+--------+-------------+------+-----+---------+-------+

3 rows in set (0.233 sec)

**VALUE INSERTION PROGRAM**

package project;

import java.sql.\*;

import java.util.\*;

public class lm {

public static void main(String[] args) {

try {

Class.forName("com.mysql.cj.jdbc.Driver");

Connection con = DriverManager.getConnection(

"jdbc:mysql://localhost:3306/school", "root", "root");

Statement stm = con.createStatement();

Scanner sc = new Scanner(System.in);

int rollno;

String name;

String cla;

System.out.println("Enter the roll no of student: ");

rollno = sc.nextInt();

sc.nextLine(); // consume newline

System.out.println("Enter the name of student: ");

name = sc.nextLine();

System.out.println("Enter the class of the student: ");

cla = sc.nextLine();

String str = "INSERT INTO stud1 VALUES (" + rollno + ", '" + name + "', '" + cla + "')";

stm.executeUpdate(str);

System.out.println("VALUE IS INSERTED");

}

catch (Exception e) {

System.out.println(e);

}

}

}

**OUTPUT:**

Enter the roll no of student:

101

Enter the name of student:

SARTHAK

Enter the class of the student:

TE

VALUE IS INSERTED

mysql> SELECT \* FROM STUD1;

+--------+----------+-------+

| rollno | Name | Class |

+--------+----------+-------+

| 101 | SARTHAK | TE |

+--------+----------+-------+

1 row in set (0.133 sec)

**WHILE LOOP PROGRAM:**

package project;

import java.sql.\*;

public class lm {

public static void main(String[] args) {

try {

Class.forName("com.mysql.cj.jdbc.Driver");

Connection con = DriverManager.getConnection(

"jdbc:mysql://localhost:3306/school", "root", "root");

Statement stm = con.createStatement();

ResultSet rs = stm.executeQuery("select \* from stud1");

while (rs.next()) {

System.out.println("RollNO: " + rs.getInt("rollno"));

System.out.println("Name: " + rs.getString("Name"));

System.out.println("Class: " + rs.getString("Class"));

}

}

catch (Exception e) {

System.out.println(e);

}

}

}

**OUTPUT:**

RollNO: 101

Name: SARTHAK

Class: TE

mysql> SELECT \* FROM stud1;

+--------+----------+-------+

| rollno | Name | Class |

+--------+----------+-------+

| 101 | SARTHAK | TE |

+--------+----------+-------+

1 row in set (0.133 sec)