**EXP 10**

Write a database application that uses any JDBC driver.

Main

**import** java.sql.SQLException;

**public** **class** Main {

**public** **static** **void** main(String[] args) **throws** ClassNotFoundException, SQLException {

Database db=**new** Database();

db.createDatabase();

db.createTable();

db.insertData();

db.deleteData();

db.updateData();

db.showData();

}

}

Database

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.SQLException;

**import** java.sql.Statement;

**import** java.sql.ResultSet;

**import** java.util.Scanner;

**public** **class** Database {

Scanner sc=**new** Scanner(System.***in***);

**public** **void** createDatabase() **throws** ClassNotFoundException, SQLException {

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

Connection con=DriverManager.*getConnection*("jdbc:mysql://localhost:3306", "root", "root");

Statement st=con.createStatement();

st.execute("create database school");

st.execute("use school");

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

System.***out***.println();

}

**public** **void** createTable() **throws** ClassNotFoundException, SQLException{

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

Connection con=DriverManager.*getConnection*("jdbc:mysql://localhost:3306/school", "root", "root");

Statement st=con.createStatement();

st.execute("create table student( srNo int(5),name varchar(25),marks int(3))");

System.***out***.println("Table Created Succesfully");

System.***out***.println();

}

**public** **void** insertData() **throws** ClassNotFoundException, SQLException{

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

Connection con= DriverManager.*getConnection*("jdbc:mysql://localhost:3306/school", "root", "root");

Statement st=con.createStatement();

st.execute("insert into student values(001,'Omkar',89)");

st.execute("insert into student values(002,'Ankita',92)");

st.execute("insert into student values(003,'Avi',87)");

st.execute("insert into student values(004,'Nikita',89)");

st.execute("insert into student values(005,'Niral',88)");

st.execute("insert into student values(006,'Chaitya',88)");

st.execute("insert into student values(007,'Chaitanya',88)");

System.***out***.println("Data inserted Succesfully");

System.***out***.println();

}

**public** **void** deleteData() **throws** ClassNotFoundException, SQLException{

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

Connection con= DriverManager.*getConnection*("jdbc:mysql://localhost:3306/school", "root", "root");

Statement st=con.createStatement();

st.execute("delete from student where srNo=007");

System.***out***.println("Data Deleted Succesfully");

System.***out***.println();

}

**public** **void** updateData() **throws** ClassNotFoundException, SQLException{

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

Connection con= DriverManager.*getConnection*("jdbc:mysql://localhost:3306/school", "root", "root");

Statement st=con.createStatement();

st.execute("update student set name='Chaitanya' where srNo=006 ");

System.***out***.println("Data Updated Succesfully");

System.***out***.println();

}

**public** **void** showData() **throws** ClassNotFoundException, SQLException{

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

Connection con= DriverManager.*getConnection*("jdbc:mysql://localhost:3306/school", "root", "root");

Statement st=con.createStatement();

ResultSet rs=st.executeQuery("select \* from student");

**while** (rs.next()) {

System.***out***.println("srNo Of The Student :"+rs.getInt(1));

System.***out***.println("Name Of The Student :"+rs.getString(2));

System.***out***.println("Marks Of The Student :"+rs.getInt(3));

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

}

System.***out***.println("Data Displayed Succesfully");

System.***out***.println();

}

}