Program to display all the records from emp table.

```
package myPrac1;
import java.sql.*;

public class dbExample1 {

     public static void main(String[] args) {
          Connection conn = null;
          try {
               Class.forName("com.mysql.cj.jdbc.Driver");
               conn =DriverManager.getConnection(

     "jdbc:mysql://localhost:3306/classicmodels?useSSL=false",
                         "root", "password");
                    Statement stmt = conn.createStatement();

                    ResultSet result = stmt.executeQuery("select *
from emp");
                    System.out.println("----------------------------
");
                    System.out.println("Empno\tEname\tDesgnation");
                    System.out.println("----------------------------
");
                    while(result.next()) {
                         System.out.println(result.getInt(1) + "\t"
                                   + result.getString(2) + "\t"
                                   + result.getString(3));
                    }
                    conn.close();
          }
          catch (Exception e) {
               System.out.println("Error :" + e.getMessage());
          }
     }
}
```

Program to insert the record to underlying table.

```
create table empmast (empno int, fname varchar(30), lname
varchar(30), mobile varchar(10), email varchar(40), job
varchar(40), deptno int);

package myPrac1;
import java.sql.*;

public class dbExample2 {

     public static void main(String[] args) {
          Connection conn = null;
          try {
               Class.forName("com.mysql.cj.jdbc.Driver");
               conn =DriverManager.getConnection(

     "jdbc:mysql://localhost:3306/classicmodels?useSSL=false",
                         "root", "password");
                    Statement stmt = conn.createStatement();
                    String SQL = "insert into empmast
values(102,'Kalpesh','Shah','9824098241'," +
                              "'kalpesh@aol.com','Programmer',10)";
                    int rowaffected = stmt.executeUpdate(SQL);
                    if(rowaffected > 0) {
                         System.out.println("Record inserted
successfully !");
                    }
                    else {
                         System.out.println("Error in insert !");
                    }
                    conn.close();
          }
          catch (Exception e) {
               System.out.println("Error :" + e.getMessage());
          }
     }
}
```

Program to update the record to underlying table

```
package myPrac1;
import java.sql.*;

public class dbExample3 {

     public static void main(String[] args) {
          Connection conn = null;
          try {
               Class.forName("com.mysql.cj.jdbc.Driver");
               conn =DriverManager.getConnection(

     "jdbc:mysql://localhost:3306/classicmodels?useSSL=false",
                         "root", "password");
                    Statement stmt = conn.createStatement();
                    String SQL = "update empmast set mobile =
'9824098242'," +
                              "email = 'kalpeshp@aol.com' where empno
= 102";
                    int rowaffected = stmt.executeUpdate(SQL);
                    if(rowaffected > 0) {
                         System.out.println("Record updated
successfully !");
                    }
                    else {
                         System.out.println("Error in update !");
                    }
                    conn.close();
          }
          catch (Exception e) {
               System.out.println("Error :" + e.getMessage());
          }
     }
}
```

Program to delete the record to underlying table

```
package myPrac1;
import java.sql.*;

public class dbExample4 {

     public static void main(String[] args) {
          Connection conn = null;
          try {
               Class.forName("com.mysql.cj.jdbc.Driver");
               conn =DriverManager.getConnection(

     "jdbc:mysql://localhost:3306/classicmodels?useSSL=false",
                         "root", "password");
                    Statement stmt = conn.createStatement();
                    String SQL = "delete from empmast where empno =
102";
                    int rowaffected = stmt.executeUpdate(SQL);
                    if(rowaffected > 0) {
                         System.out.println("Record deleted
successfully !");
                    }
                    else {
                         System.out.println("Error in delete
operation !");
                    }
                    conn.close();
          }
          catch (Exception e) {
               System.out.println("Error :" + e.getMessage());
          }
     }
}
```

Program to get the input from user and perform the insert operation to underlying table.

```
package myPrac1;
import java.sql.*;
import java.util.Scanner;

public class dbExample5 {

     public static void main(String[] args) {
          int mEmpno,mDeptno;
          String mFname, mLname, mMobile, mEmail, mJob;

          Scanner scn = new Scanner(System.in);

          System.out.print("Enter the valid employee number :");
          mEmpno = scn.nextInt();
          System.out.print("Enter the valid employee fname  :");
          mFname = scn.next();
          System.out.print("Enter the valid employee lanme  :");
          mLname = scn.next();
          System.out.print("Enter the valid employee mobile :");
          mMobile = scn.next();
          System.out.print("Enter the valid employee email  :");
          mEmail = scn.next();
          System.out.print("Enter the valid employee job    :");
          mJob = scn.next();
          System.out.print("Enter the valid employee deptno :");
          mDeptno = scn.nextInt();

          Connection conn = null;
          try {
               Class.forName("com.mysql.cj.jdbc.Driver");
               conn =DriverManager.getConnection(

     "jdbc:mysql://localhost:3306/classicmodels?useSSL=false",
                         "root", "password");

                    String SQL = "insert into empmast
values(?,?,?,?,?,?,?)";
                    PreparedStatement pstmt =
conn.prepareStatement(SQL);

                    //set the value to each parameter
                    pstmt.setInt(1, mEmpno);
```

```
                    pstmt.setString(2, mFname);
                    pstmt.setString(3, mLname);
                    pstmt.setString(4, mMobile);
                    pstmt.setString(5, mEmail);
                    pstmt.setString(6, mJob);
                    pstmt.setInt(7, mDeptno);

                    int rowaffected = pstmt.executeUpdate();
                    if(rowaffected > 0) {
                         System.out.println("Record inserted
successfully !");
                    }
                    else {
                         System.out.println("Error in insert !");
                    }
                    conn.close();
          }
          catch (Exception e) {
               System.out.println("Error :" + e.getMessage());
          }
     }
}
```

Program to display ResultSet Metadata.

```
package myPrac1;
import java.sql.*;

public class dbResultExample {

     public static void main(String[] args) {
          Connection conn = null;
          try {
               Class.forName("com.mysql.cj.jdbc.Driver");
               String connectionUrl =

"jdbc:mysql://localhost:3306/classicmodels?useSSL=false";
               conn = DriverManager.getConnection(connectionUrl,
"root", "password");

               PreparedStatement pstmt =
conn.prepareStatement("select empno, ename, job, hiredate From
emp");
               ResultSet result = pstmt.executeQuery();

               ResultSetMetaData resmd = result.getMetaData();
               System.out.println("Total columns: " +
resmd.getColumnCount());
               System.out.println("Column Name of 1st column: " +
resmd.getColumnName(1));
               System.out.println("Column Type Name of 1st column: "
+ resmd.getColumnTypeName(1));

               conn.close();
          }
          catch (Exception e) {
               System.out.println("Error :" + e.getMessage());
          }
     }
}
```

Program to display Database Metadata.

```
package myPrac1;
import java.sql.*;

public class dbDatabaseMDExample {

     public static void main(String[] args) {
          Connection conn = null;
          try {
               Class.forName("com.mysql.cj.jdbc.Driver");
               String connectionUrl =

"jdbc:mysql://localhost:3306/classicmodels?useSSL=false";
               conn = DriverManager.getConnection(connectionUrl,
"root", "password");

               DatabaseMetaData dbmd = conn.getMetaData();
               System.out.println("Driver Name     :
"+dbmd.getDriverName());
               System.out.println("Driver Version :
"+dbmd.getDriverVersion());
               System.out.println("UserName       :
"+dbmd.getUserName());
               System.out.println("DB Product Name:
"+dbmd.getDatabaseProductName());
               System.out.println("DB Product Version:
"+dbmd.getDatabaseProductVersion());

               conn.close();
          }
          catch (Exception e) {
               System.out.println("Error :" + e.getMessage());
          }
     }
}
```

Program to call a procedure from database and display the Resultset.

```
package myPrac1;
import java.sql.*;

//DELIMITER //
//CREATE PROCEDURE getEmployees(IN mdeptno INT)
//BEGIN
//   select empno, ename, job, e.deptno, dname from emp e join dept
d on e.deptno = d.deptno and
//   e.deptno = mdeptno;
//END //

class Employees {
     public void getEmployees(int mdeptno) throws SQLException {

          DriverManager.registerDriver(new
com.mysql.cj.jdbc.Driver());
          String mysqlUrl =
"jdbc:mysql://localhost:3306/classicmodels?useSSL=false";

          boolean flag = false;
         try (Connection conn =
DriverManager.getConnection(mysqlUrl, "root", "password"))
         {
          //Calling a procedure with parameter
          CallableStatement cstmt = conn.prepareCall("{ call
getEmployees(?) }");

          //Set the parameter value
          cstmt.setInt(1, mdeptno);

          ResultSet rs = cstmt.executeQuery();

          System.out.println("Department Number :" + mdeptno);
          System.out.println("-----------------------------------
----------------");

     System.out.println("Empno\tEname\tJob\t\tDeptno\tDepartment
Name");
          System.out.println("-----------------------------------
----------------");
          while(rs.next()) {
               System.out.println(rs.getInt(1) + "\t" +
                         rs.getString(2) + "\t" +
```

```
                        rs.getString(3) + "\t\t" +
                        rs.getString(4) + "\t" +
                        rs.getString(5) + "\t" );
                flag = true;
            }
            if(!flag) System.out.println("There is no record exists
for deptno : " + mdeptno);

            } catch(Exception e) {
                System.out.println("Error :" + e.getMessage());
            }
        }
}
public class dbCallableExample {

    public static void main(String[] args) {
            try {
                Employees empobj = new Employees();
                empobj.getEmployees(40);
            }
            catch (SQLException e) {
            System.out.println("Error :" + e.getMessage());
            }
    }
}
```

Program to do the batch processing to underlying table.

Create table tempstud (rollno int, name varchar(30));

```
package myPrac1;
import java.sql.*;

public class dbBatchProcessing1 {
     public static void main(String[] args) {
          try {
               DriverManager.registerDriver(new
com.mysql.cj.jdbc.Driver());
               String mysqlUrl =
"jdbc:mysql://localhost:3306/classicmodels?useSSL=false";

              Connection con = DriverManager.getConnection(mysqlUrl,
"root", "password");

              Statement stmt = con.createStatement();

              //Need to set autocommit = false before batch
processing
              con.setAutoCommit(false);

     stmt.addBatch("insert into tempstud values(1,'Mahesh Shah')");
     stmt.addBatch("insert into tempstud values(2,'Dinesh Shah')");
     stmt.addBatch("insert into tempstud values(3,'Jayesh Shah')");
     stmt.addBatch("insert into tempstud values(4,'Paresh Shah')");
     stmt.addBatch("insert into tempstud values(5,'Umesh Shah')");

     //Executing the batch
     int tot[] = stmt.executeBatch();

     //Saving the changes
     con.commit();
     System.out.println("Records inserted......:" + tot.length);
}
catch (Exception e) {
     System.out.println("Error :" + e.getMessage());
}
}
}
```

Program to do the batch processing to underlying table.

```
package myPrac1;
import java.sql.*;

public class dbBatchProcessing2 {
     public static void main(String[] args) {
          try {
               DriverManager.registerDriver(new
com.mysql.cj.jdbc.Driver());
               String mysqlUrl =
"jdbc:mysql://localhost:3306/classicmodels?useSSL=false";

              Connection con = DriverManager.getConnection(mysqlUrl,
"root", "password");

              con.setAutoCommit(false);
              String SQL = "insert into tempstud values(?,?)";
              PreparedStatement pstmt = con.prepareStatement(SQL);

     //Record-1
pstmt.setInt(1, 1); pstmt.setString(2, "Mahesh"); pstmt.addBatch();
     //Record-2
pstmt.setInt(1, 2); pstmt.setString(2, "Paresh"); pstmt.addBatch();
    //Record-3
pstmt.setInt(1, 3); pstmt.setString(2, "Dinesh"); pstmt.addBatch();
    //Record-4
pstmt.setInt(1, 4); pstmt.setString(2, "Yogesh"); pstmt.addBatch();
    //Record-5
pstmt.setInt(1, 5); pstmt.setString(2, "Umesh"); pstmt.addBatch();

    //Executing the batch
    int tot[] = pstmt.executeBatch();

    //Saving the changes
    con.commit();
    System.out.println("Records inserted......:" + tot.length);
    con.close();
}
catch (Exception e) {
     System.out.println("Error :" + e.getMessage());
}
}
}
```

Program to create updatable resultset.

```
create table tempemp (empid int primary key, ename varchar(30), salary
decimal(10,2));

insert into tempemp values(1,'Kalpesh',10000),
(2, 'Dinesh',20000),(3,'Mahesh',30000),(4,'Ganesh',25000);


package myPrac1;
import java.sql.*;

public class UpdatableReExample {
     public static void main(String[] args) {
          try {
                DriverManager.registerDriver(new
com.mysql.cj.jdbc.Driver());
                String mysqlUrl =
"jdbc:mysql://localhost:3306/classicmodels?useSSL=false";
                Connection con =
DriverManager.getConnection(mysqlUrl, "root", "password");
                System.out.println("Connection established......");

                //Creating a Statement object
                Statement stmt =
con.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
                ResultSet.CONCUR_UPDATABLE);

                //Retrieving the data
                ResultSet rs = stmt.executeQuery("select * from
tempemp");

                //Printing the contents of the table
                System.out.println("Contents of the table: ");
                rs.beforeFirst();
                while(rs.next()) {
                   System.out.print("EmpID : " +
rs.getInt("empid"));
                   System.out.print(", Name: " +
rs.getString("ename"));
                   System.out.println(", Salary: " +
rs.getString("salary"));
                }
                System.out.println();
```

```
                //Moving the pointer to the starting point in the
ResultSet
                rs.beforeFirst();

                //Updating the salary of each employee by 5000
                while(rs.next()) {
                   //Retrieve by column name
                   int newSal = rs.getInt("Salary") + 5000;
                   rs.updateInt("Salary", newSal );
                   rs.updateRow();
                }
                System.out.println("Contents of the ResultSet after
increasing salaries");
                rs.beforeFirst();
                while(rs.next()) {
                   System.out.print("ID: " + rs.getInt("empid"));
                   System.out.print(", Name: " +
rs.getString("ename"));
                   System.out.println(", Salary: " +
rs.getString("salary"));
                }
                System.out.println();
               }
               catch(Exception ex) {
                    System.out.println(ex.getMessage());
               }
     }
}
```

Program to create JDBCrowSet

```
package myPrac1;

import javax.sql.rowset.*;

public class JBDCRowSetExample {
     public static void main(String[] args) {
          try {
               Class.forName("com.mysql.cj.jdbc.Driver");
               JdbcRowSet rowSet =
RowSetProvider.newFactory().createJdbcRowSet();

rowSet.setUrl("jdbc:mysql://localhost:3306/classicmodels?useSSL=fal
se");
              rowSet.setUsername("root");
              rowSet.setPassword("password");
              rowSet.setCommand("select * from tempemp");
              rowSet.execute();

              while (rowSet.next()) {
               System.out.println("------------------------------
");
                 System.out.println("EmpId  : " + rowSet.getInt(1));
                 System.out.println("Name   : " +
rowSet.getString(2));
                 System.out.println("Salary : " + rowSet.getInt(3));
              }
          }
          catch (Exception e) {
               System.out.println(e.getMessage());
          }
     }
}
```

Program to create CachedrowSet

```
package myPrac1;

import javax.sql.rowset.RowSetProvider;
import javax.sql.rowset.CachedRowSet;

public class CachedRowSetExample {

     public static void main(String[] args) {
          try {
               Class.forName("com.mysql.cj.jdbc.Driver");

               CachedRowSet crs =
RowSetProvider.newFactory().createCachedRowSet();


     crs.setUrl("jdbc:mysql://localhost:3306/classicmodels?useSSL=fa
lse");
               crs.setUsername("root");
               crs.setPassword("password");
               crs.setCommand("select * from tempemp");
               crs.execute();

               while (crs.next()) {
                   if (crs.getInt("empid") == 1) {
                        System.out.println("CRS found EmpID : 4 and
will remove the record.");
                        crs.deleteRow();

                        System.out.println("Remaining records are in
cached resultset");
                        while(crs.next()) {
                          System.out.println("EmpID : " +
crs.getInt(1) + "\n");
                        }
                        break;
                   }
               }
          }
          catch (Exception e) {
               System.out.println(e.getMessage());
          }
     }
}
```

Program to create WebrowSet

```
package myPrac1;

import java.io.FileOutputStream;
import javax.sql.rowset.RowSetProvider;
import javax.sql.rowset.WebRowSet;

public class dbWebrowSetExample {

     public static void main(String[] args) {
          try {

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

               WebRowSet wrs =
RowSetProvider.newFactory().createWebRowSet();


wrs.setUrl("jdbc:mysql://localhost:3306/classicmodels?useSSL=false"
);
             wrs.setUsername("root");
             wrs.setPassword("password");
             wrs.setCommand("select * from emp");
             wrs.execute();

             FileOutputStream fos = new FileOutputStream("emp.xml");
             wrs.writeXml(fos);
             System.out.println("XML file creation is done");
          }
          catch (Exception e) {
               System.out.println(e.getMessage());
          }
     }
}
```

Program to create FilterRowSet

```
package myPrac1;

import java.sql.SQLException;

import javax.sql.RowSet;
import javax.sql.rowset.*;

class searchfilter implements Predicate {
	int deptno;
	String colname;

	public searchfilter(String colname, int deptno) {
		this.colname = colname;
		this.deptno = deptno;
	}
	@Override
	public boolean evaluate(RowSet rs) {

		boolean flag = false;
		try {
			flag = rs.getInt(this.colname) == deptno ? true : false;
		}
		catch(Exception ex) {
			flag = false;
		}
		return flag;

	}

	@Override
	public boolean evaluate(Object value, int column) throws SQLException {
		 throw new UnsupportedOperationException("Not supported yet.");
	}

	@Override
	public boolean evaluate(Object value, String columnName) throws SQLException {
		throw new UnsupportedOperationException("Not supported yet.");
	}

}
public class dbFilterRowsetExample1 {
```

```
	public static void main(String[] args) {
		try {

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

			FilteredRowSet rowSet =
RowSetProvider.newFactory().createFilteredRowSet();
		rowSet.setUrl("jdbc:mysql://localhost:3306/classicmodels?useSSL=false");
		rowSet.setUsername("root");
		rowSet.setPassword("password");
		rowSet.setCommand("select empno, ename, deptno from emp");
		rowSet.execute();

		rowSet.setFilter(new searchfilter("deptno", 10));

		while (rowSet.next()) {
	      System.out.println(rowSet.getInt(1) + "\t" + rowSet.getString(2) + "\t" +
			rowSet.getInt(3));
		}
		  }
		  catch (Exception e) {
			System.out.println(e.getMessage());
		  }
	}
}
```

Program to create JoinRowSet

```
package myPrac1
import javax.sql.rowset.CachedRowSet;
import javax.sql.rowset.JoinRowSet;
import javax.sql.rowset.RowSetProvider;

public class dbJoinRowsetExample1 {

	public static void main(String[] args) {
		try {
			Class.forName("com.mysql.cj.jdbc.Driver");
			CachedRowSet emp =
RowSetProvider.newFactory().createCachedRowSet();
			emp.setUrl("jdbc:mysql://localhost:3306/classicmodels?useSSL=false");
			emp.setUsername("root");
			emp.setPassword("password");
			emp.setCommand("select * from emp");
			emp.execute();

			CachedRowSet dept =
RowSetProvider.newFactory().createCachedRowSet();
			dept.setUrl("jdbc:mysql://localhost:3306/classicmodels?useSSL=false");
			dept.setUsername("root");
			dept.setPassword("password");
			dept.setCommand("select * from dept");
			dept.execute();

		JoinRowSet jrs = RowSetProvider.newFactory().createJoinRowSet();
		jrs.addRowSet(emp, "deptno");
		jrs.addRowSet(dept,"deptno");

		while (jrs.next()) {
	      System.out.println(jrs.getInt("empno") + "\t" +
			jrs.getString("ename") + "\t" +
			jrs.getString("deptno") + "\t" +
			jrs.getString("dname"));
		}
		  }
		  catch (Exception e) {
			System.out.println(e.getMessage());
		  }
}}
```

Program to create CRUD operation using JDBC

```
package myPrac1;

import java.sql.*;
import java.util.*;

/*CREATE TABLE crudstudent (
rollno int NOT NULL PRIMARY KEY,
name varchar(40), mobile varchar(10)
)
*/

class DAOHandler {
	private int mrollno;
	private String mname, mmobile;
	Scanner scn = new Scanner(System.in);

	private Connection getDBConnection() {
		Connection conn = null;
		try {
			DriverManager.registerDriver(new com.mysql.cj.jdbc.Driver());
			String mysqlUrl =
"jdbc:mysql://localhost:3306/classicmodels?useSSL=false";
			conn = DriverManager.getConnection(mysqlUrl, "root", "password");
		}
		catch (Exception e) {
			System.out.println("Connection Error :" + e.getMessage());
		}
		return conn;
	}
	private void getData() {
		System.out.print("Enter the valid rollno :");
		mrollno = scn.nextInt();
		System.out.print("Enter the valid name   :");
		mname = scn.next();
		System.out.print("Enter the valid mobile :");
		mmobile = scn.next();
	}
	private void getrollno() {
		System.out.print("Enter the valid rollno :");
		mrollno = scn.nextInt();
	}
```

```
public int addRecord() throws Exception {
	int result = 0;
	Connection conn = null;
	try {
		conn = getDBConnection();
		getData();

		String SQL = "insert into CRUDStudent values(?,?,?)";
		PreparedStatement pstmt = conn.prepareStatement(SQL);
		pstmt.setInt(1, mrollno);
		pstmt.setString(2, mname);
		pstmt.setString(3, mmobile);
		result = pstmt.executeUpdate();
	}
	catch (Exception e) {
		System.out.println("Insert Error :" + e.getMessage());
	}
	conn.close();
	return result;
}
public void editRecord() throws Exception {
	getrollno();
	Connection conn = null;
	PreparedStatement pstmt;
	boolean flag = false;
	try {
		conn = getDBConnection();
		pstmt = conn.prepareStatement(
				"select * from CRUDStudent where rollno = ?");
		pstmt.setInt(1, mrollno);
		ResultSet result = pstmt.executeQuery();

		while(result.next()) {
			flag=  true;
			System.out.println("Student Name  :" + result.getString(2));
			System.out.println("Student Mobile:" + result.getString(3));
		}
		if(flag) {
			System.out.println("Enter data to be update");
			System.out.println("----------------------");
			System.out.print("Enter the valid name   :");
			mname = scn.next();
			System.out.print("Enter the valid mobile :");
```

```
                    mmobile = scn.next();

                    pstmt = conn.prepareStatement
                     ("update crudStudent set name=?,mobile=? where rollno=?");
                    pstmt.setString(1, mname);
                    pstmt.setString(2, mmobile);
                    pstmt.setInt(3, mrollno);

                    pstmt.executeUpdate();
                    System.out.println("Record updated !");
                }
                else
                {
                    System.out.println("Record not found, Try later !");
                }
            }
            catch (Exception e) {
                System.out.println("Edit error :" + e.getMessage());
            }
        }
        public void deleteRecord() throws Exception {
            getrollno();
            Connection conn = null;
            PreparedStatement pstmt = null;
            boolean flag = false;
            try {
                conn = getDBConnection();
                pstmt = conn.prepareStatement(
                            "select * from CRUDStudent where rollno = ?");
                pstmt.setInt(1, mrollno);
                ResultSet result = pstmt.executeQuery();

                while(result.next()) {
                    flag=  true;
                    pstmt = conn.prepareStatement(
                                "delete from CRUDStudent where rollno = ?");
                    pstmt.setInt(1, mrollno);
                    pstmt.executeUpdate();
                    System.out.println("Record Deleted !");
                }
                if(!flag)
                    System.out.println("Record not found, Try later !");
            }
```

```
        catch (Exception e) {
                System.out.println("Delete :" + e.getMessage());
        }
        conn.close();
}
public void searchRecord() throws Exception{
        getrollno();
        Connection conn = null;
        boolean flag = false;
        try {
                conn = getDBConnection();
                PreparedStatement pstmt = conn.prepareStatement(
                                "select * from CRUDStudent where rollno = ?");
                pstmt.setInt(1, mrollno);
                ResultSet result = pstmt.executeQuery();

                while(result.next()) {
                        flag=  true;
                        System.out.println("Student Name  :" + result.getString(2));
                        System.out.println("Student Mobile:" + result.getString(3));
                }
                if(!flag)
                        System.out.println("Record not found, Try later !");
        }
        catch (Exception e) {
                System.out.println("Insert Error :" + e.getMessage());
        }
        conn.close();
}
public void showAll() throws SQLException {
        Connection conn = null;
        try {
                conn = getDBConnection();
                PreparedStatement pstmt =
                                conn.prepareStatement("select * from CRUDStudent");
                ResultSet result = pstmt.executeQuery();

                System.out.println("Rollno\tStudent Name\tMobile");
                while(result.next()) {
                        System.out.println(result.getString(1) + "\t" +
                                        result.getString(2) + "\t\t" + result.getString(3));
                }
        }
```

```
			catch (Exception e) {
				System.out.println(e.getMessage());
			}
			conn.close();
		}
}
public class CRUDUsingJDBC {
	public static void main(String[] args) {
			int choice = 0;
			Scanner getch = new Scanner(System.in);

			DAOHandler crudobj = new DAOHandler();

			while(choice != 6) {
				System.out.println("1 - Add Record");
				System.out.println("2 - Edit Record");
				System.out.println("3 - Delete Record");
				System.out.println("4 - Search Record");
				System.out.println("5 - View All Records");
				System.out.println("6 - Exit");

				System.out.print("Enter the valid choice :");
				choice = getch.nextInt();

				switch (choice) {
					case 1: {
						try {
							int retval = crudobj.addRecord();
							if(retval > 0 )
								System.out.println("Record inserted !");
							else
								System.out.println("Error in insert operation
!");
						}
						catch (Exception e) {
							System.out.println("Error :" + e.getMessage());
						}
						break;
					}
					case 2:
						try {
							crudobj.editRecord();
						}
```

```
                        catch (Exception e) {
                                System.out.println("Edit :" + e.getMessage());
                        }
                        break;
                case 3:
                        try {
                                crudobj.deleteRecord();
                        }
                        catch (Exception e) {
                                System.out.println("Delete :" + e.getMessage());
                        }
                        break;
                case 4:
                        try {
                                crudobj.searchRecord();
                        }
                        catch (Exception e) {
                                System.out.println("Search :" + e.getMessage());
                        }
                        break;
                case 5:
                        try {
                                crudobj.showAll();
                        }
                        catch (Exception e) {
                                System.out.println("Show All:" + e.getMessage());
                        }
                        break;
                case 6:
                        System.out.println("Thank you for using CRUD operation
!");
                        return;
                default:
                        System.out.println("Invalid choice !"); break;
                }
        }
    }
}
```