Package com.company;

Public class Main {

Public static void main(String[] args) {

New Crimes();

}

}

Package com.company;

Import com.toedter.calendar.JDateChooser;

Import javax.swing.\*;

Import javax.swing.table.DefaultTableModel;

Import java.awt.event.ActionEvent;

Import java.awt.event.ActionListener;

Import java.awt.event.MouseAdapter;

Import java.awt.event.MouseEvent;

Import java.sql.\*;

Import java.text.DateFormat;

Import java.util.Vector;

Public class Crimes {

Private JTextField idData;

Private JTextField nameData;

Private JTextField crimeData;

Private JTextField ageData;

Private JPanel dateCrime;

Private JTable table1;

Private JButton ADDRECORDButton;

Private JButton UPDATERECORDButton;

Private JPanel crimePanel;

JDateChooser dateChooser = new JDateChooser();

JFrame crime = new JFrame();

Public Crimes(){

Crime.setDefaultCloseOperation(crime.EXIT\_ON\_CLOSE);

Crime.setContentPane(crimePanel);

Crime.pack();

Crime.setLocationRelativeTo(null);

Crime.setSize(600,500);

Crime.setVisible(true);

dateCrime.add(dateChooser);

tableData();

ADDRECORDButton.addActionListener(new ActionListener() {

@Override

Public void actionPerformed(ActionEvent e) {

If(idData.equals(“”)|| nameData.equals(“”)|| crimeData.equals(“”)|| ageData.equals(“”)||dateChooser.getDate()==null){

JOptionPane.showMessageDialog(null,”Please Fill All Fields to add Record.”);

}else{

Try {

String sql = “insert into criminal”+”(Case\_ID,Name,Crime\_Type,Age,Arrest\_Date)”+”values (?,?,?,?,?)”;

Class.forName(“com.mysql.cj.jdbc.Driver”);

Connection connection = DriverManager.getConnection(“jdbc:mysql://localhost:3306/intern”,”root”,”root”);

PreparedStatement statement = connection.prepareStatement(sql);

String strDate = DateFormat.getDateInstance().format(dateChooser.getDate());

Statement.setInt(1,Integer.parseInt(idData.getText()));

Statement.setString(2, nameData.getText());

Statement.setString(3, crimeData.getText());

Statement.setInt(4,Integer.parseInt(ageData.getText()));

Statement.setString(5,strDate);

Statement.executeUpdate();

JOptionPane.showMessageDialog(null,”ITEM ADDED SUCCESSFULLY”);

idData.setText(“”);

nameData.setText(“”);

crimeData.setText(“”);

ageData.setText(“”);

dateChooser.setCalendar(null);

}catch (Exception ex){

JOptionPane.showMessageDialog(null,ex.getMessage());

}

tableData();

}

}

});

UPDATERECORDButton.addActionListener(new ActionListener() {

@Override

Public void actionPerformed(ActionEvent e) {

Try{

String strDate = DateFormat.getDateInstance().format(dateChooser.getDate());

String sql = “UPDATE criminal “ +

“SET Name = ‘”+ nameData.getText()+”’,Crime\_Type=’”+ crimeData.getText()+”’,Age=’”+Integer.parseInt(ageData.getText())+”’,Arrest\_Date=’”+strDate+”’ WHERE Case\_ID=”+Integer.parseInt(idData.getText());

Class.forName(“com.mysql.cj.jdbc.Driver”);

Connection connection = DriverManager.getConnection(“jdbc:mysql://localhost:3306/intern”,”root”,”root”);

PreparedStatement statement = connection.prepareStatement(sql);

Statement.executeUpdate();

JOptionPane.showMessageDialog(null,”Updated successfully”);

}catch (Exception e2){

System.out.println(e2);

}

tableData();

}

});

Table1.addMouseListener(new MouseAdapter() {

@Override

Public void mouseClicked(MouseEvent e) {

DefaultTableModel dm = (DefaultTableModel)table1.getModel();

Int rowSelect = table1.getSelectedRow();

idData.setText(dm.getValueAt(rowSelect,0).toString());

nameData.setText(dm.getValueAt(rowSelect,1).toString());

crimeData.setText(dm.getValueAt(rowSelect,2).toString());

ageData.setText(dm.getValueAt(rowSelect,3).toString());

}

});

}

Public void tableData() {

Try{

String a= “Select\* from criminal”;

Class.forName(“com.mysql.cj.jdbc.Driver”);

Connection connection = DriverManager.getConnection(“jdbc:mysql://localhost:3306/intern”,”root”,”root”);

Statement statement = connection.createStatement();

ResultSet rs = statement.executeQuery(a);

Table1.setModel(buildTableModel(rs));

}catch (Exception ex1){

JOptionPane.showMessageDialog(null,ex1.getMessage());

}

}

Public static DefaultTableModel buildTableModel(ResultSet rs)

Throws SQLException {

ResultSetMetaData metaData = rs.getMetaData();

// names of columns

Vector<String> columnNames = new Vector<String>();

Int columnCount = metaData.getColumnCount();

For (int column = 1; column <= columnCount; column++) {

columnNames.add(metaData.getColumnName(column));

}

// data of the table

Vector<Vector<Object>> data = new Vector<Vector<Object>>();

While (rs.next()) {

Vector<Object> vector = new Vector<Object>();

For (int columnIndex = 1; columnIndex <= columnCount; columnIndex++) {

Vector.add(rs.getObject(columnIndex));

}

Data.add(vector);

}

Return new DefaultTableModel(data, columnNames);

}

}