**package** *com.company*;

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

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

new Attendance();

}

}

**package** *com.company*;

**import** *javax.swing.*\*;

**import** *java.awt.*\*

**import** *java.sql.*\*;

**import** *java.util.*\*;

**public** **class** Attendance {

**private** JTextField nameData;

**private** JTextField totalClasses;

**private** JTable table1;

**private** JButton ADDRECORDButton;

**private** JButton UPDATERECORDButton;

**private** JPanel resultPanel;

**private** JComboBox subject;

**private** JTextField attendance;

**private** **int** totalMarks=0;

JFrame attendF = new JFrame();

**public** Attendance(){

attendF.setContentPane(resultPanel);

attendF.pack();

attendF.setLocationRelativeTo(**null**);

attendF.setVisible(**true**);

tableData();

ADDRECORDButton.addActionListener(new ActionListener() {

@Override

**public** **void** actionPerformed(ActionEvent e) {

**if**( nameData.getText().equals("")|| attendance.getText().equals("")){

JOptionPane.showMessageDialog(**null**,"Please Fill NAME and Total Classes Fields to add Record.");

}**else**{

**try** {

**String** sql = "insert into attendance"+"(NAME,SUBJECT,TOTAL\_CLASSES,CLASSES\_ATTENDED,TOTAL\_ATTENDANCE)"+"values (?,?,?,?,?)";

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

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

PreparedStatement statement = connection.prepareStatement(sql);

**double** attend = (**Double**.parseDouble(attendance.getText())/**Double**.parseDouble(totalClasses.getText()))\*100.0;

statement.setString(1,nameData.getText());

statement.setString(2,""+subject.getSelectedItem());

statement.setString(3,totalClasses.getText());

statement.setString(4,attendance.getText());

statement.setString(5,**String**.format("%.2f",attend)+"%");

statement.executeUpdate();

JOptionPane.showMessageDialog(**null**,"STUDENT ADDED SUCCESSFULLY");

attendance.setText("");

}**catch** (Exception ex){

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

}

tableData();

}

}

});

UPDATERECORDButton.addActionListener(new ActionListener() {

@Override

**public** **void** actionPerformed(ActionEvent e) {

**String** sql="";

**double** attend = (**Double**.parseDouble(attendance.getText())/**Double**.parseDouble(totalClasses.getText()))\*100.0;

**String** attend1 = **String**.format("%.2f",attend)+"%";

**try**{

**if**(subject.getSelectedIndex()==0){

sql = "UPDATE attendance "+"SET CLASSES\_ATTENDED= '"+attendance.getText()+"' ,TOTAL\_ATTENDANCE= '"+attend1+"' "+" WHERE NAME= '"+nameData.getText()+"' AND SUBJECT='PHYSICS'";

}**else** **if**(subject.getSelectedIndex()==1){

sql = "UPDATE attendance "+"SET CLASSES\_ATTENDED= '"+attendance.getText()+"' ,TOTAL\_ATTENDANCE= '"+attend1+"' "+" WHERE NAME= '"+nameData.getText()+"' AND SUBJECT='CHEMISTRY'";

}**else** {

sql = "UPDATE attendance "+"SET CLASSES\_ATTENDED= '"+attendance.getText()+"' ,TOTAL\_ATTENDANCE= '"+attend1+"' "+" WHERE NAME= '"+nameData.getText()+"' AND SUBJECT='MATHS'";

}

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**,"Attendance Updated successfully");

}**catch** (Exception e2){

System.out.println(e2);

}

tableData();

}

});

table1.addMouseListener(new MouseAdapter() {

@Override

**public** **void** mouseClicked(MouseEvent e) {

**int** i=1;

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

**int** rowIndex = table1.getSelectedRow();

nameData.setText(dm.getValueAt(rowIndex,0).toString());

attendance.setText(dm.getValueAt(rowIndex,3).toString());

totalClasses.setText(dm.getValueAt(rowIndex,2).toString());

}

});

}

**public** **void** tableData() {

**try**{

**String** a= "Select\* from attendance";

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

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

Statement resultQuery = connection.createStatement();

ResultSet queryResult = resultQuery.executeQuery(a);

table1.setModel(buildTableModel(queryResult));

}**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);

}

}