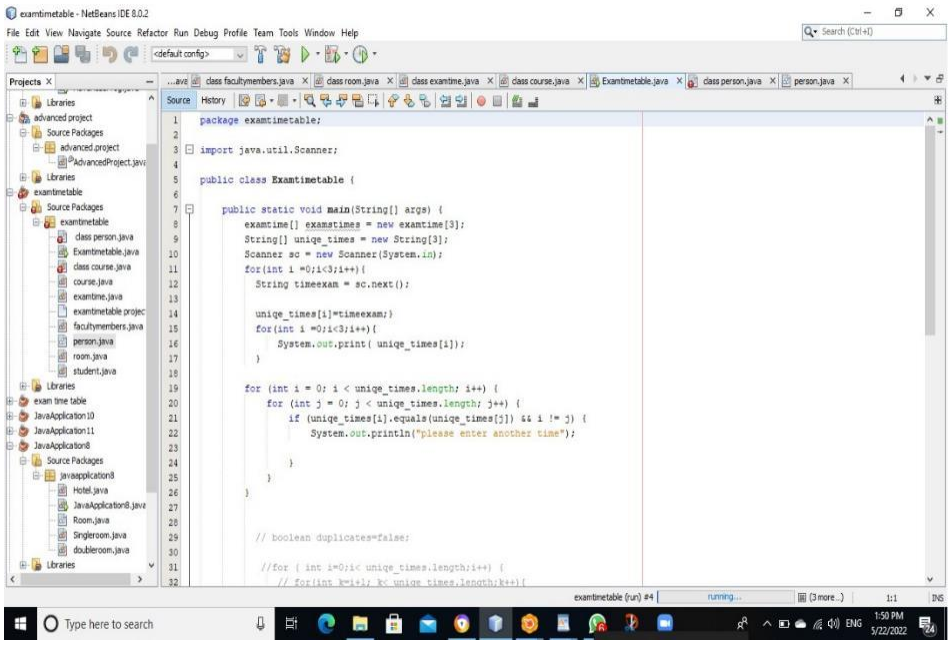
Exam time table project

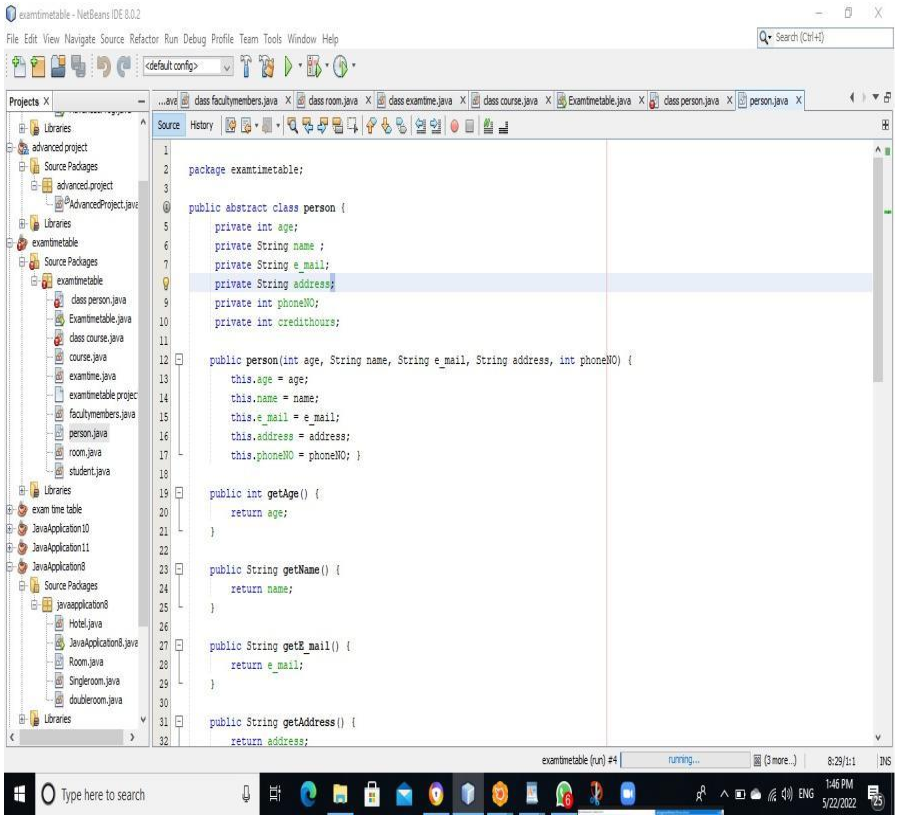
Our main class




```
package examtimetable;

import java. util.Scanner;

public class Examtimetable {

   public static void main(String[] args) {

      String[] uniqe_times = new String[3];
      Scanner sc = new Scanner(System.in);
      for (int i =0;i<3;i++){
       String timeexam = sc.next();

       uniqe_times[i]=timeexam;}
       for(int i =0;i<3;i++){
          System.out.print( uniqe_times[i]);
       }

      for (int i = 0; i < uniqe_times.length; i++) {
        for (int j = 0; j < uniqe_times.length; j++) {
          if (uniqe_times[i].equals(uniqe_times[j]) && i != j) {
             System.out.println("please enter another time");
          }
        }
      }
       // boolean duplicates=false;

        //for ( int i=0;i< uniqe_times.length;i++) {
          // for(int k=i+1; k< uniqe_times.length;k++){
            //  if (k!=i && uniqe_times[k] ==uniqe_times [i]) {
                // duplicates=true;
                // System.out.println("please enter another time");
            //  }
          // }
        // }

      for (int i = 0; i < 3; i++) {
        String course_name = sc.next();
        int course_code = sc.nextInt();
        course c1 = new course(course_code, course_name);
       examtime examstimes= new examtime(uniqe_times[i],c1);
             }
   }
}
```

Class person

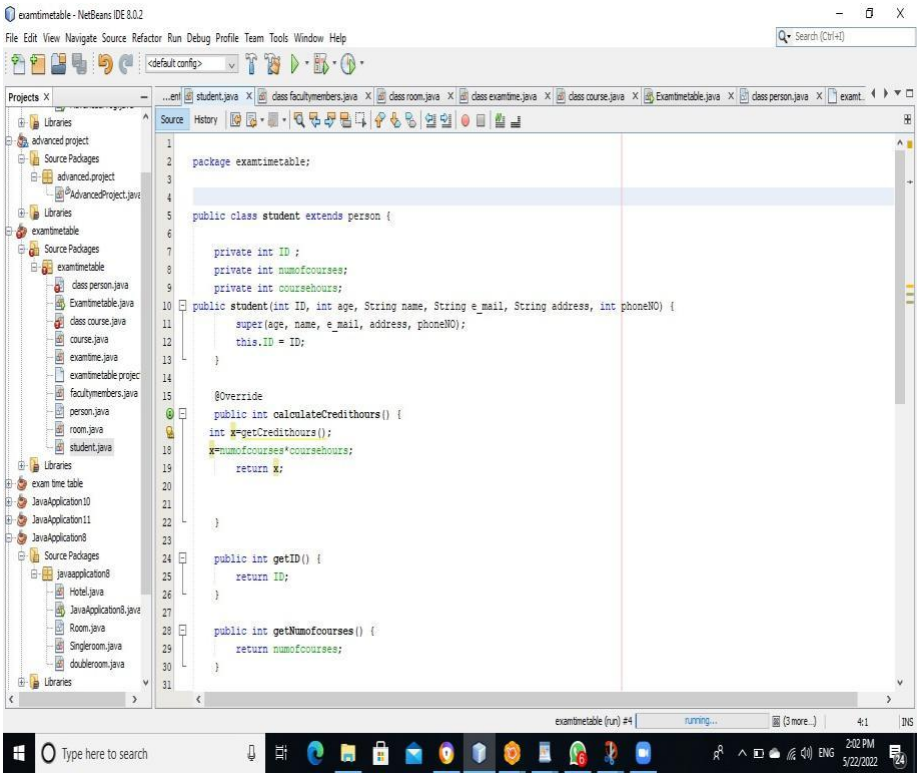
```
package examtimetable.

public abstract class person {
     private int age.
     private String name ;
     private String e_mail;
     private String address.
     private int phoneNO;
     private int credithours;

    public person(int age, String name, String e_mail, String address,
int phoneNO) {
        this.age = age; this.name
        = name; this.e_mail =
        e_mail; this.address =
        address; this.phoneNO =
        phoneNO; }

    public int getAge()
        { return age;
    }

    public String getName()
        { return name;
    }

    public String getE_mail() {
        return e_mail;
    }

    public String getAddress()
        { return address;
    }

    public int getPhoneNO()
        { return phoneNO;
    }

    public int getCredithours()
        { return credithours;
    }

    public void setAge(int age) {
        this.age = age;
    }

    public void setName(String name) {
        this.name = name;
    }

    public void setE_mail(String e_mail) {
        this.e_mail = e_mail;
    }
```



```
    public void setAddress(String address)
        { this.address = address;
    }

    public void setPhoneNO(int phoneNO) {
        this.phoneNO = phoneNO;
    }

    public void setCredithours(int credithours)
        { this.credithours = credithours;
    }

public abstract int calculateCredithours();

   }
```

Class student

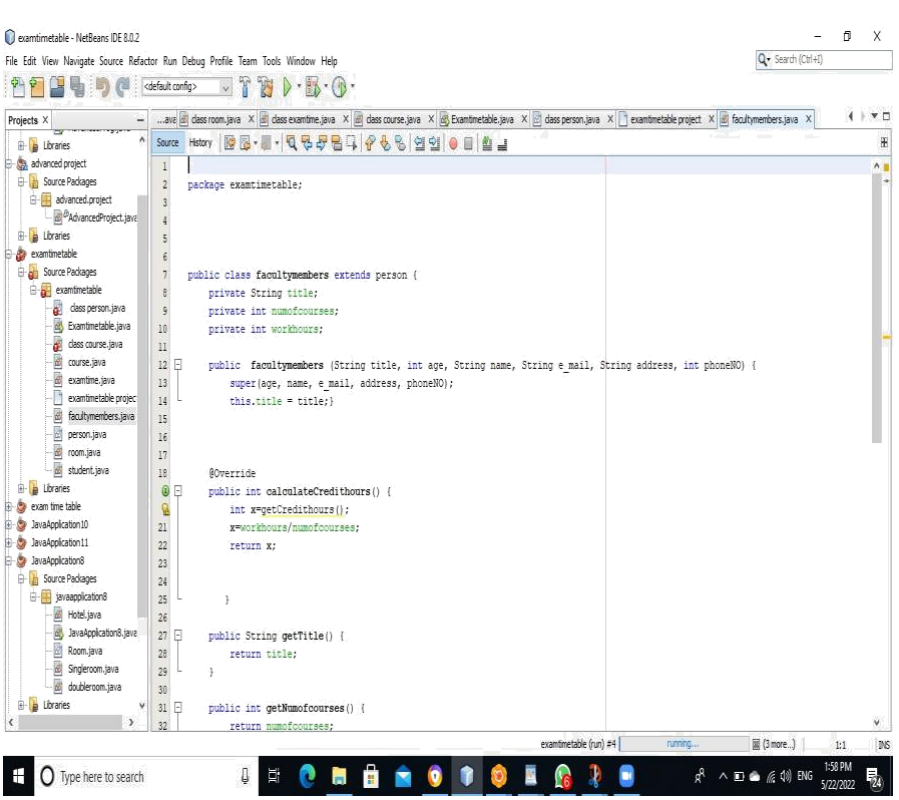
```
package examtimetable;

public abstract class person {
     private int age;
     private String name ;
     private String e_mail;
     private String address;
     private int phoneNO;
     private int credithours;

    public person(int age, String name, String e_mail, String address,
int phoneNO) {
        this.age = age; this.name
        = name; this.e_mail =
        e_mail; this.address =
        address; this.phoneNO =
        phoneNO; }

    public int getAge()
        { return age;
    }

    public String getName()
        { return name;
    }

    public String getE_mail() {
        return e_mail;
    }

    public String getAddress()
        { return address;
    }

    public int getPhoneNO()
        { return phoneNO;
    }
```



```
    public int getCredithours() {
        return credithours;
    }

    public void setAge(int age) {
        this.age = age;
    }

    public void setName(String name) {
        this.name = name;
    }

    public void setE_mail(String e_mail) {
        this.e_mail = e_mail;
    }

    public void setAddress(String address)
        { this.address = address;
    }

    public void setPhoneNO(int phoneNO) {
        this.phoneNO = phoneNO;
    }

    public void setCredithours(int credithours)
        { this.credithours = credithours;
    }

public abstract int calculateCredithours();

}
```

Class faculty members

```
package examtimetable;

public class facultymembers extends person
    { private String title;
    private int numofcourses;
    private int workhours;

    public facultymembers (String title, int age, String name, String
e_mail, String address, int phoneNO) {
        super(age, name, e_mail, address, phoneNO);
        this.title = title;}



    @Override
    public int calculateCredithours() {
        int x=getCredithours();
        x=workhours/numofcourses;
        return x;


       }
```




```
    public String getTitle()
        { return title;
    }

    public int getNumofcourses()
        { return numofcourses;
    }

    public int getWorkhours() {
        return workhours;


    }

    public void setTitle(String title)
{
        this.title = title;
    }

    public void setNumofcourses(int numofcourses) {
        this.numofcourses = numofcourses;
    }

    public void setWorkhours(int workhours)
        { this.workhours = workhours;
    }
}
```

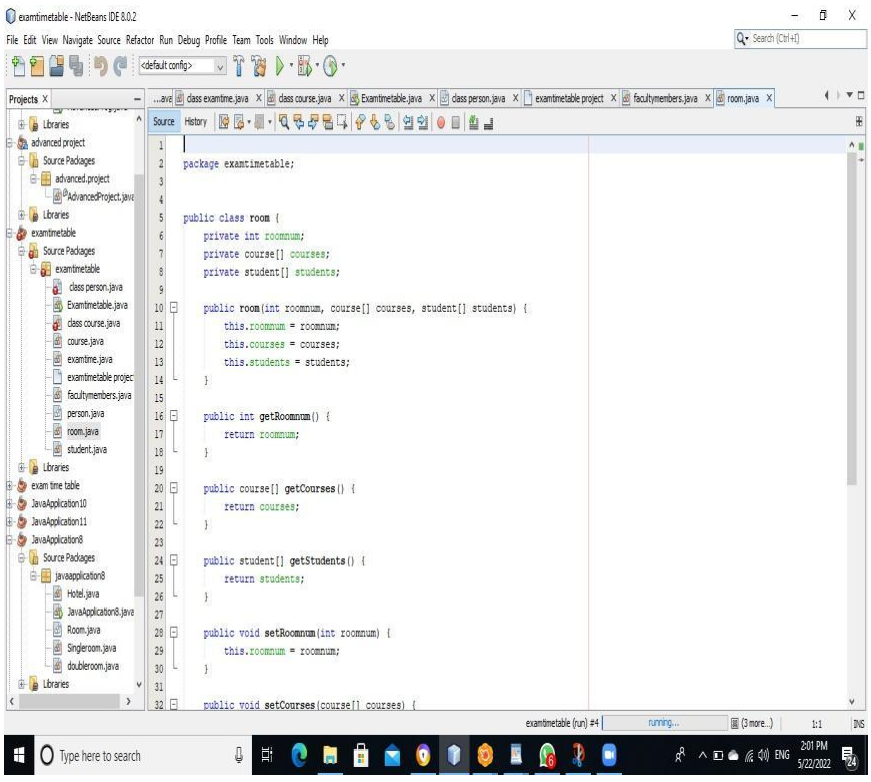
Class course

```
package examtimetable;
public class course {
    private int coursecode;
     private  String coursename;
     private  String examtime;
     private student[] students;

    public course(int coursecode, String coursename)
        { this.coursecode = coursecode;
        this.coursename = coursename;
    }

    public int getCoursecode() {
        return coursecode;
    }

    public String getCoursename() {
        return coursename;
    }

    public student[] getStudents() {
        return students;
    }

    public void setCoursecode(int coursecode)
        { this.coursecode = coursecode;
```

```
    }

    public void setCoursename(String coursename)
        { this.coursename = coursename;
    }

    public void setStudents(student[] students)
        { this.students = students;
    }

    public String getExamtime() {
        return examtime;
    }

    public void setExamtime(String examtime) {
        this.examtime = examtime;
    }

}
```

Class rooms

```
package examtimetable;
public class room {
   private int roomnum;
   private course[] courses;
   private student[] students;

   public room(int roomnum, course[] courses, student[] students) {
      this.roomnum = roomnum;
      this.courses = courses;
      this.students = students;
   }

   public int getRoomnum() {
      return roomnum;
   }

   public course[] getCourses() {
      return courses;
   }

   public student[] getStudents() {
      return students;
   }

   public void setRoomnum(int roomnum) {
      this.roomnum = roomnum;
   }

   public void setCourses(course[] courses) {
      this.courses = courses;
   }

   public void setStudents(student[] students) {
```

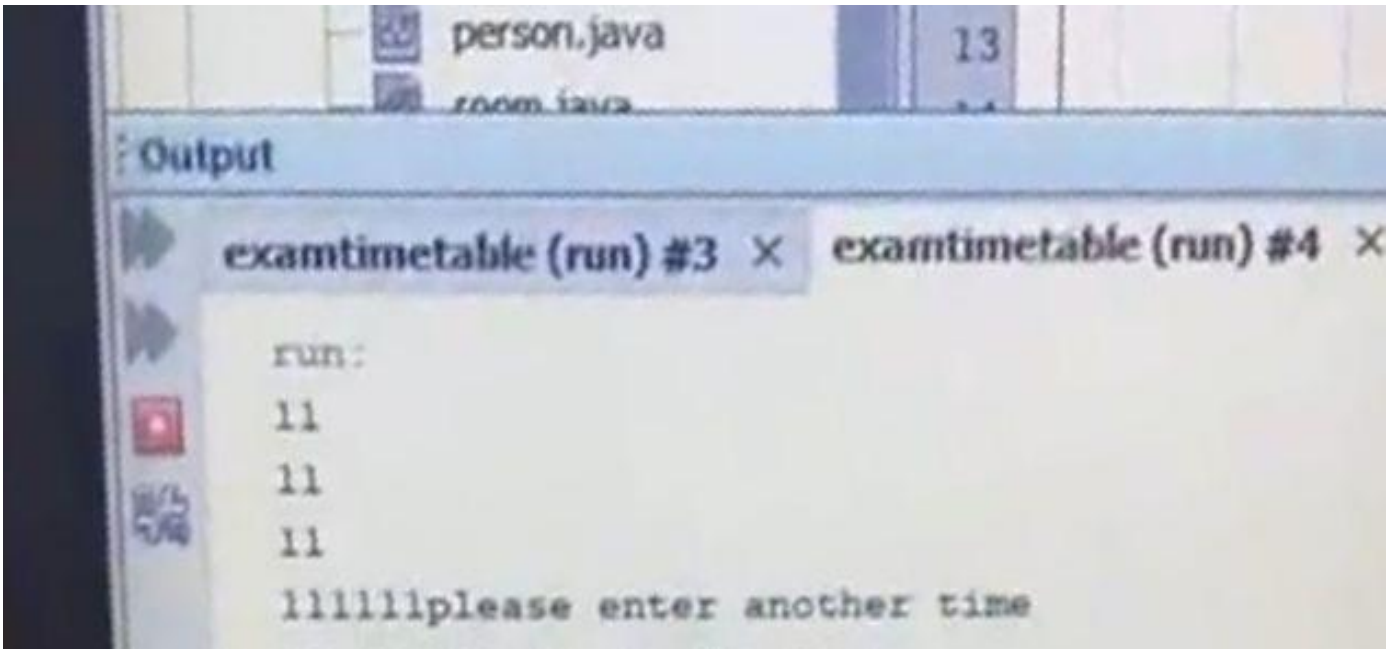


this.students = students; }

class Examtime

```
package examtimetable;
public class examtime {
    private String time;
    private course courses;

    public examtime(String time, course courses)
        { this.time = time;
        this.courses = courses;
    }

    public course getCourses() {
        return courses;
    }

    public void setCourses(course courses)
        { this.courses = courses;
    }

    public String getTime() {
        return time;
    }

    public void setTime(String time) {
        this.time = time;
    }


}
```

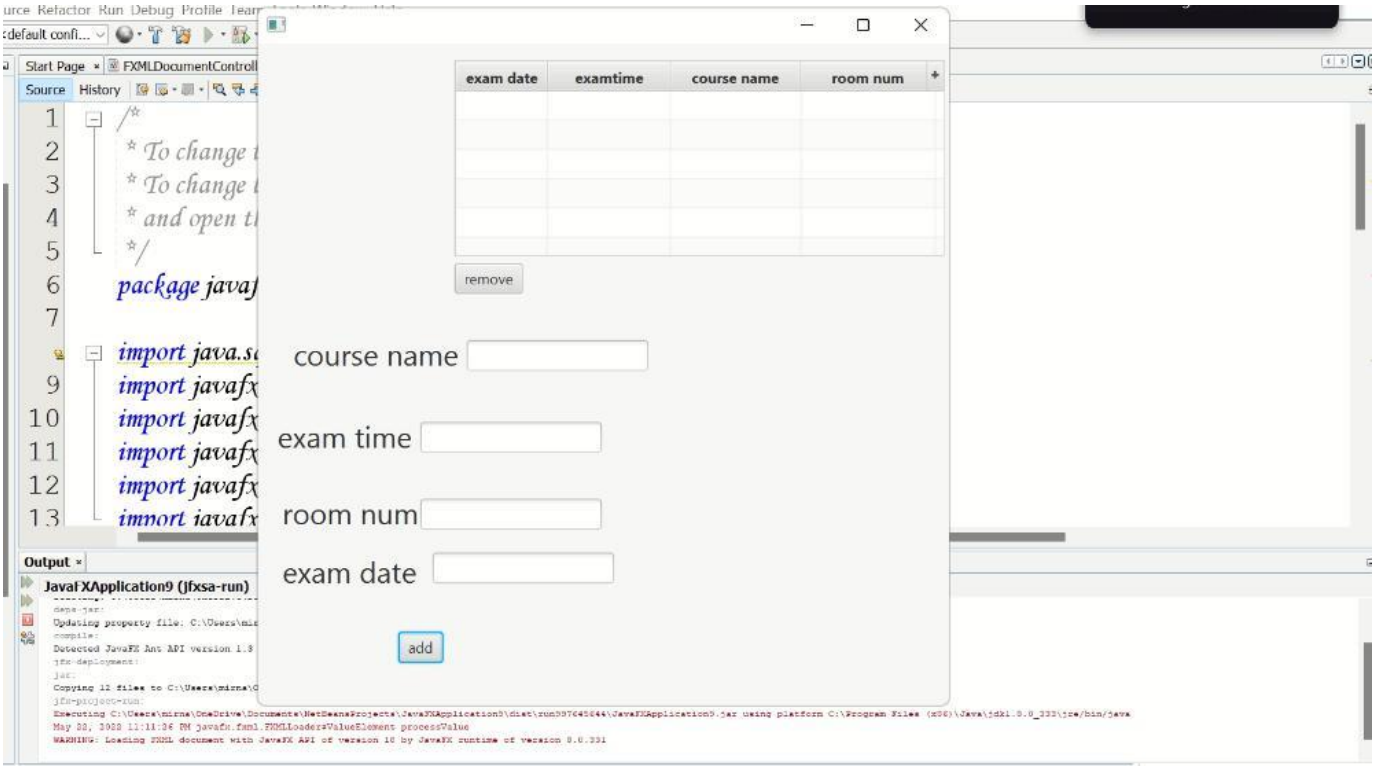
Run Time



Our GUI

By javafx

```
package javafxapplication9;
import java.net.URL;
import java.util.ResourceBundle;
import javafx.fxml.FXML;
import javafx.scene.control.Button;
import javafx.scene.control.Label;
import javafx.scene.control.TableColumn;
import javafx.scene.control.TableView;
```




```
import javafx.scene.control.TextField;
import javafx.scene.layout.AnchorPane;
import javafx.event.ActionEvent;
import javafx.fxml.Initializable;
import javafx.scene.control.cell.PropertyValueFactory;
import javafx.collections.ObservableList;
import javafx.event.EventType;

 public class FXMLDocumentController implements Initializable {

   @FXML
   private Button add;

   @FXML
```

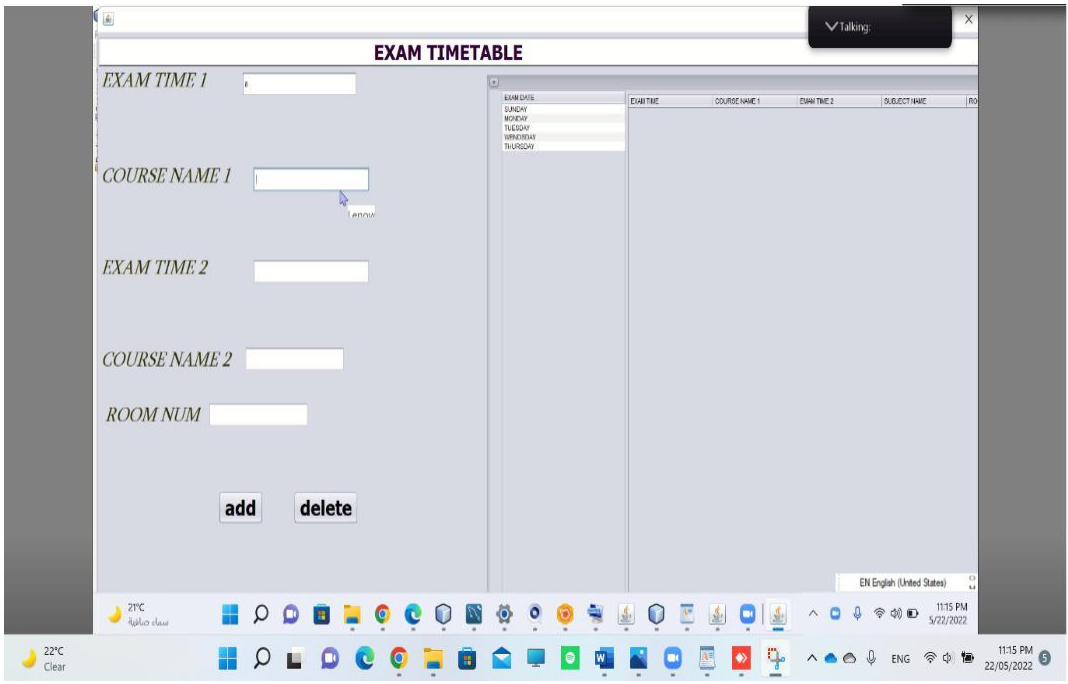
```
    private TableColumn<table, String> coursename;

    @FXML
    private Label coursename1;

    @FXML
    private TableColumn<table, String> examdate;

    @FXML
    private Label examdate1;

    @FXML
    private TableColumn<table,String> examtime;

    @FXML
    private Button remove;

    @FXML
    private Label room;

    @FXML
    private TableColumn<table,String> roomnum;

    @FXML
    private TableView<table> table;

    @FXML
    private TextField text;

    @FXML
    private TextField txt;

    @FXML
    private AnchorPane txt2;
  @FXML
    private Label examdatee;
    @FXML
    private TextField txt3;
       @FXML
    private TextField txtdate;

    @Override
    public void initialize(URL location, ResourceBundle resources) {
```

```
        coursename.setCellValueFactory(new PropertyValueFactory<table, String>("course name"));
        roomnum.setCellValueFactory(new PropertyValueFactory<table, String>("roomnum"));
        examtime.setCellValueFactory(new PropertyValueFactory<table, String>("examtime"));
        examdate.setCellValueFactory(new PropertyValueFactory<table, String>("examdate"));
       }
    @FXML
          void submit(ActionEvent event) {
        table exam = new table(text.getText(),
        txt.getText(),txt3.getText(),txtdate.getText());
        ObservableList<table> exams= table.getItems();
       table.getItems().add(exam);

       }

    }
```

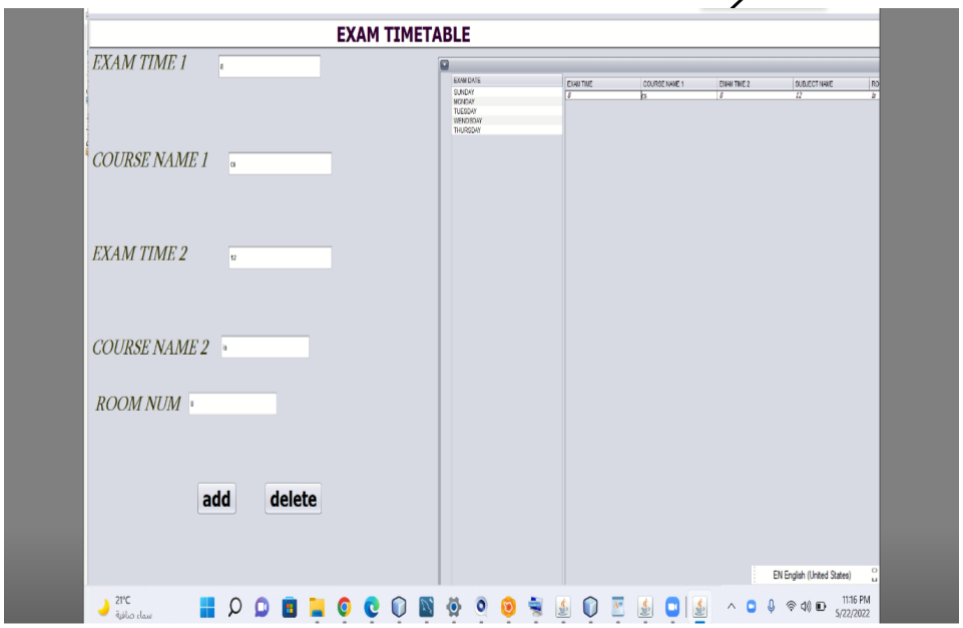
Our GUI

By Swing

```
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.table.DefaultTableModel;
public class examtimetable extends javax.swing.JFrame {

   public examtimetable() {
      initComponents();
   }


   @SuppressWarnings("unchecked")
   // <editor-fold defaultstate="collapsed"
    desc="Generated Code">
   private void initComponents() {

      jButton1 = new javax.swing.JButton();
      jRadioButtonMenuItem1 = new
    javax.swing.JRadioButtonMenuItem();
      jRadioButtonMenuItem2 = new
    javax.swing.JRadioButtonMenuItem();
      jLabel1 = new javax.swing.JLabel();
      jLabel2 = new javax.swing.JLabel();
      txtcoursename1 = new javax.swing.JTextField();
      jScrollPane2 = new javax.swing.JScrollPane();
```



Added exam in schedule




```
  jTextPane1 = new javax.swing.JTextPane();
  jInternalFrame1 = new javax.swing.JInternalFrame();
  jScrollPane1 = new javax.swing.JScrollPane();
  jTable1 = new javax.swing.JTable();
  jScrollPane3 = new
javax.swing.JScrollPane();
  jTable2 = new javax.swing.JTable();
  jScrollPane4 = new
javax.swing.JScrollPane();
  jTable3 = new javax.swing.JTable();
  jPanel2 = new javax.swing.JPanel();
  jLabel3 = new javax.swing.JLabel();
  txtcoursename2 = new
javax.swing.JTextField();
  jLabel4 = new javax.swing.JLabel(); jLabel5
  = new javax.swing.JLabel(); txtroomnum =
  new javax.swing.JTextField(); jLabel6 = new
  javax.swing.JLabel(); txtcoursename3 = new

javax.swing.JTextField();
  jLabel7 = new javax.swing.JLabel();
  txtroomnum1 = new javax.swing.JTextField();
  jButton2 = new javax.swing.JButton();
  jButton3 = new javax.swing.JButton();

  jButton1.setText("jButton1");

  jRadioButtonMenuItem1.setSelected(true);
  jRadioButtonMenuItem1.setText("jRadioButtonMenuItem1");

  jRadioButtonMenuItem2.setSelected(true);
  jRadioButtonMenuItem2.setText("jRadioButtonMenuItem2");

  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
  setFont(new java.awt.Font("Agency FB", 1, 24)); // NOI18N
  setName("exam time table"); // NOI18N

  jLabel2.setFont(new java.awt.Font("Sylfaen", 2, 36)); // NOI18N
  jLabel2.setForeground(new java.awt.Color(51, 51, 0));
  jLabel2.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 1, 1, 1));

  txtcoursename1.addActionListener(new java.awt.event.ActionListener() {
     public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtcoursename1ActionPerformed(evt);
```

```
    }
  });

  jTextPane1.setBackground(new java.awt.Color(153, 153, 153));

jTextPane1.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED) );

  jTextPane1.setFont(new java.awt.Font("Tahoma", 1, 36)); //
  NOI18N jTextPane1.setForeground(new java.awt.Color(51, 0, 51));
  jTextPane1.setText(" EXAM TIMETABLE");
  jScrollPane2.setViewportView(jTextPane1);

  jInternalFrame1.setVisible(true);

  jTable1.setAutoCreateRowSorter(true);
  jTable1.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));
  jTable1.setFont(new java.awt.Font("Sylfaen", 2, 14)); // NOI18N
  jTable1.setForeground(new java.awt.Color(51, 0, 51));
  jTable1.setModel(new
    javax.swing.table.DefaultTableModel( new Object [][] {

    },
    new String [] {
      "EXAM TIME", "COURSE NAME 1", "EMAM TIME 2", "SUBJECT NAME", "ROOM NUM"
    }
  ));
  jTable1.setColumnSelectionAllowed(true);
  jTable1.addComponentListener(new java.awt.event.ComponentAdapter() {
    public void componentHidden(java.awt.event.ComponentEvent evt)
      { jTable1ComponentHidden(evt);
    }
    public void componentShown(java.awt.event.ComponentEvent evt) {
      jTable1ComponentShown(evt);
    }
  });
  jScrollPane1.setViewportView(jTable1);
jTable1.getColumnModel().getSelectionModel().setSelectionMode(javax.swing.ListSelectionModel.MULTIPLE
_INTERVAL_SELECTION);
  if (jTable1.getColumnModel().getColumnCount() > 0) {
    jTable1.getColumnModel().getColumn(4).setResizable(false);
  }
  jTable1.getAccessibleContext().setAccessibleDescription("");

  jTable2.setModel(new
    javax.swing.table.DefaultTableModel( new Object [][] {
```

```
        {null},
        {null},
        {null},
        {null},
        {null},
        {null}
    },
    new String [] {
        "Title 1"
    }
));
jScrollPane3.setViewportView(jTable2);

jTable3.setModel(new
    javax.swing.table.DefaultTableModel( new Object [][] {
        {"SUNDAY"},
        {"MONDAY"},
        {"TUESDAY"},
        {"WENDSDAY"},
        {"THURSDAY"}
    },
    new String [] {
        "EXAM DATE"
    }
));
jScrollPane4.setViewportView(jTable3);

javax.swing.GroupLayout jInternalFrame1Layout = new
javax.swing.GroupLayout(jInternalFrame1.getContentPane());
jInternalFrame1.getContentPane().setLayout(jInternalFrame1Layout);
jInternalFrame1Layout.setHorizontalGroup(
    jInternalFrame1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jInternalFrame1Layout.createSequentialGroup()
        .addContainerGap()
        .addComponent(jScrollPane3, javax.swing.GroupLayout.PREFERRED_SIZE,
0, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(jScrollPane4, javax.swing.GroupLayout.PREFERRED_SIZE, 273,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(1, 1, 1)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 923,
javax.swing.GroupLayout.PREFERRED_SIZE))
);
```

```
  jInternalFrame1Layout.setVerticalGroup(
     jInternalFrame1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
     .addGroup(jInternalFrame1Layout.createSequentialGroup()
        .addComponent(jScrollPane4, javax.swing.GroupLayout.PREFERRED_SIZE,
1106, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 54, Short.MAX_VALUE))
     .addGroup(jInternalFrame1Layout.createSequentialGroup()
        .addContainerGap()
.addGroup(jInternalFrame1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
           .addComponent(jScrollPane3, javax.swing.GroupLayout.PREFERRED_SIZE, 306,
javax.swing.GroupLayout.PREFERRED_SIZE)
           .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
1106, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
  );

  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
  jPanel2.setLayout(jPanel2Layout);
  jPanel2Layout.setHorizontalGroup(
     jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
     .addGap(0, 430, Short.MAX_VALUE)
  );
  jPanel2Layout.setVerticalGroup(
     jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
     .addGap(0, 85, Short.MAX_VALUE)
  );

  jLabel3.setFont(new java.awt.Font("Sylfaen", 2, 36)); // NOI18N
  jLabel3.setForeground(new java.awt.Color(51, 51, 0));
  jLabel3.setText("COURSE NAME 1");
  jLabel3.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 1, 1, 1));

  txtcoursename2.addActionListener(new java.awt.event.ActionListener() {
     public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtcoursename2ActionPerformed(evt);
     }
  });

  jLabel4.setFont(new java.awt.Font("Sylfaen", 2, 36)); // NOI18N
  jLabel4.setForeground(new java.awt.Color(51, 51, 0));
  jLabel4.setText("EXAM TIME 1");
  jLabel4.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 1, 1, 1));

  jLabel5.setFont(new java.awt.Font("Sylfaen", 2, 36)); // NOI18N
```

```
jLabel5.setForeground(new java.awt.Color(51, 51, 0));
jLabel5.setText("ROOM NUM");
jLabel5.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 1, 1, 1));

txtroomnum.addActionListener(new java.awt.event.ActionListener()
   { public void actionPerformed(java.awt.event.ActionEvent evt) {
      txtroomnumActionPerformed(evt);
   }
});

jLabel6.setFont(new java.awt.Font("Sylfaen", 2, 36)); // NOI18N
jLabel6.setForeground(new java.awt.Color(51, 51, 0));
jLabel6.setText("EXAM TIME 2");
jLabel6.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 1, 1, 1));

txtcoursename3.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      txtcoursename3ActionPerformed(evt);
   }
});

jLabel7.setFont(new java.awt.Font("Sylfaen", 2, 36)); // NOI18N
jLabel7.setForeground(new java.awt.Color(51, 51, 0));
jLabel7.setText("COURSE NAME 2");
jLabel7.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 1, 1, 1));

txtroomnum1.addActionListener(new java.awt.event.ActionListener()
   { public void actionPerformed(java.awt.event.ActionEvent evt) {
      txtroomnum1ActionPerformed(evt);
   }
});

jButton2.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N
jButton2.setText("add");
jButton2.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      jButton2ActionPerformed(evt);
   }
});

jButton3.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N
jButton3.setText("delete");
jButton3.addActionListener(new java.awt.event.ActionListener() {
```

```
    public void actionPerformed(java.awt.event.ActionEvent evt) {
      jButton3ActionPerformed(evt);
    }
  });

  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
  getContentPane().setLayout(layout);
  layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
      .addComponent(jScrollPane2)
      .addContainerGap())
    .addGroup(layout.createSequentialGroup()
      .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
          .addContainerGap()
          .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
              .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
                .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel4, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel6, javax.swing.GroupLayout.DEFAULT_SIZE,
301, Short.MAX_VALUE)
                .addComponent(jLabel7, javax.swing.GroupLayout.DEFAULT_SIZE,
301, Short.MAX_VALUE))
              .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                  .addComponent(txtcoursename1, javax.swing.GroupLayout.PREFERRED_SIZE,
249, javax.swing.GroupLayout.PREFERRED_SIZE)
                  .addGap(35, 35, 35)
                  .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,
241, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(layout.createSequentialGroup()
                  .addGap(30, 30, 30)
                  .addComponent(txtcoursename2, javax.swing.GroupLayout.PREFERRED_SIZE,
252, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(layout.createSequentialGroup()
                  .addGap(30, 30, 30)
                  .addComponent(txtcoursename3, javax.swing.GroupLayout.PREFERRED_SIZE,
252, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(layout.createSequentialGroup()
```

```
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                        .addComponent(txtroomnum1, javax.swing.GroupLayout.PREFERRED_SIZE, 216,
javax.swing.GroupLayout.PREFERRED_SIZE))))
                .addGroup(layout.createSequentialGroup()
                    .addGap(8, 8, 8)
                    .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE,
209, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(18, 18, 18)
                    .addComponent(txtroomnum, javax.swing.GroupLayout.PREFERRED_SIZE,
216, javax.swing.GroupLayout.PREFERRED_SIZE))))
            .addGroup(layout.createSequentialGroup()
                .addGap(246, 246, 246)
                .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(layout.createSequentialGroup()
                .addGap(262, 262, 262)
                .addComponent(jButton2)
                .addGap(67, 67, 67)
                .addComponent(jButton3)))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jInternalFrame1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(27, 27, 27)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 374,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, Short.MAX_VALUE))
  );
  layout.setVerticalGroup(
     layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
     .addGroup(layout.createSequentialGroup()
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(7, 7, 7)
                .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(layout.createSequentialGroup()
                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addGroup(layout.createSequentialGroup()
                                .addGap(13, 13, 13)
                                .addComponent(jLabel2))
                            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                                .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
```

```
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(txtcoursename1, javax.swing.GroupLayout.PREFERRED_SIZE, 42,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGap(114, 114, 114)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                  .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)
                  .addComponent(txtcoursename2, javax.swing.GroupLayout.PREFERRED_SIZE, 42,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(108, 108, 108)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                  .addComponent(txtcoursename3, javax.swing.GroupLayout.PREFERRED_SIZE, 42,
javax.swing.GroupLayout.PREFERRED_SIZE)
                  .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(108, 108, 108)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                  .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)
                  .addComponent(txtroomnum1, javax.swing.GroupLayout.PREFERRED_SIZE,
42, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(45, 45, 45)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                  .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)
                  .addComponent(txtroomnum, javax.swing.GroupLayout.PREFERRED_SIZE, 42,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(103, 103, 103)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                  .addComponent(jButton2)
                  .addComponent(jButton3))
                .addGap(224, 224, 224)
                .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
              .addGroup(layout.createSequentialGroup()
                .addGap(13, 13, 13)
                .addComponent(jInternalFrame1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))))
        .addGroup(layout.createSequentialGroup()
          .addGap(77, 77, 77)
          .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE,
23, javax.swing.GroupLayout.PREFERRED_SIZE)))
      .addGap(0, 2431, Short.MAX_VALUE))
  );
```

```
        pack();
    }// </editor-fold>

    private void txtcoursename1ActionPerformed(java.awt.event.ActionEvent evt)
        { // TODO add your handling code here:
    }

    private void txtcoursename2ActionPerformed(java.awt.event.ActionEvent evt)
        { // TODO add your handling code here:
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    String data[]={ txtcoursename1.getText(), txtcoursename2.getText(),txtroomnum.getText(),
      txtcoursename3.getText(),txtroomnum1.getText()};
    DefaultTableModel tblmodel= (DefaultTableModel) jTable1.getModel();
tblmodel.addRow(data);

    }

    private void jTable1ComponentShown(java.awt.event.ComponentEvent evt)
        { // TODO add your handling code here:

    }

    private void txtroomnumActionPerformed(java.awt.event.ActionEvent evt)
        { // TODO add your handling code here:
    }

    private void jTable1ComponentHidden(java.awt.event.ComponentEvent evt)
        { // TODO add your handling code here:
    }

    private void txtcoursename3ActionPerformed(java.awt.event.ActionEvent evt)
        { // TODO add your handling code here:
    }

    private void txtroomnum1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt)
        { // TODO add your handling code here:
        DefaultTableModel tblmodel= (DefaultTableModel) jTable1.getModel();
tblmodel.removeRow(WIDTH);
```

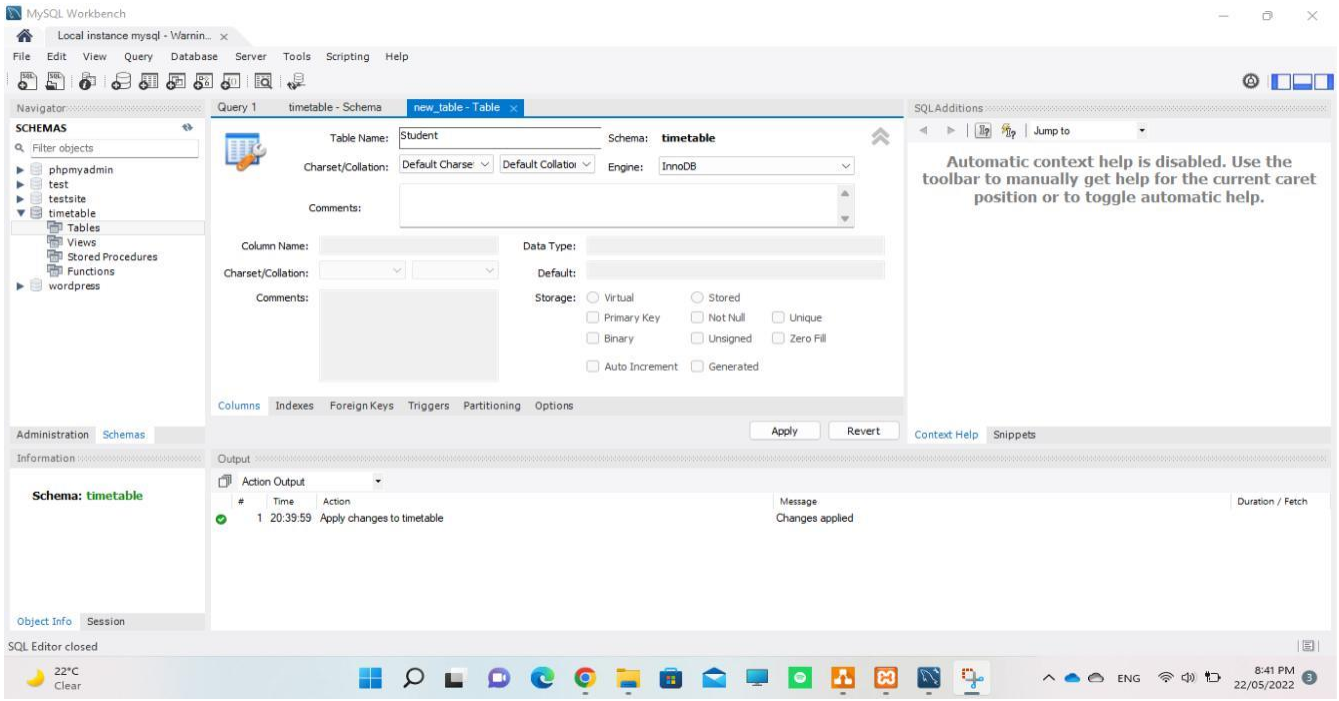
```
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) "> /* If
    Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
     */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels())
 {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(examtimetable.class.getName()).log(java.util.logging.Level.SEVERE,
 null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(examtimetable.class.getName()).log(java.util.logging.Level.SEVERE,
 null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(examtimetable.class.getName()).log(java.util.logging.Level.SEVERE,
 null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(examtimetable.class.getName()).log(java.util.logging.Level.SEVERE,
 null, ex);
    }
    //</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new examtimetable().setVisible(true);
        }
    });
}

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
```

```
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JInternalFrame jInternalFrame1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JRadioButtonMenuItem jRadioButtonMenuItem1;
    private javax.swing.JRadioButtonMenuItem jRadioButtonMenuItem2;
    private javax.swing.JScrollPane jScrollPane1; private
    javax.swing.JScrollPane jScrollPane2;
    private javax.swing.JScrollPane jScrollPane3;
    private javax.swing.JScrollPane jScrollPane4;
    private javax.swing.JTable jTable1;
    private javax.swing.JTable jTable2;
    private javax.swing.JTable jTable3;
    private javax.swing.JTextPane jTextPane1;
    private javax.swing.JTextField txtcoursename1;
    private javax.swing.JTextField txtcoursename2;
    private javax.swing.JTextField txtcoursename3;
    private javax.swing.JTextField txtroomnum;
    private javax.swing.JTextField txtroomnum1;
    // End of variables declaration
}
```

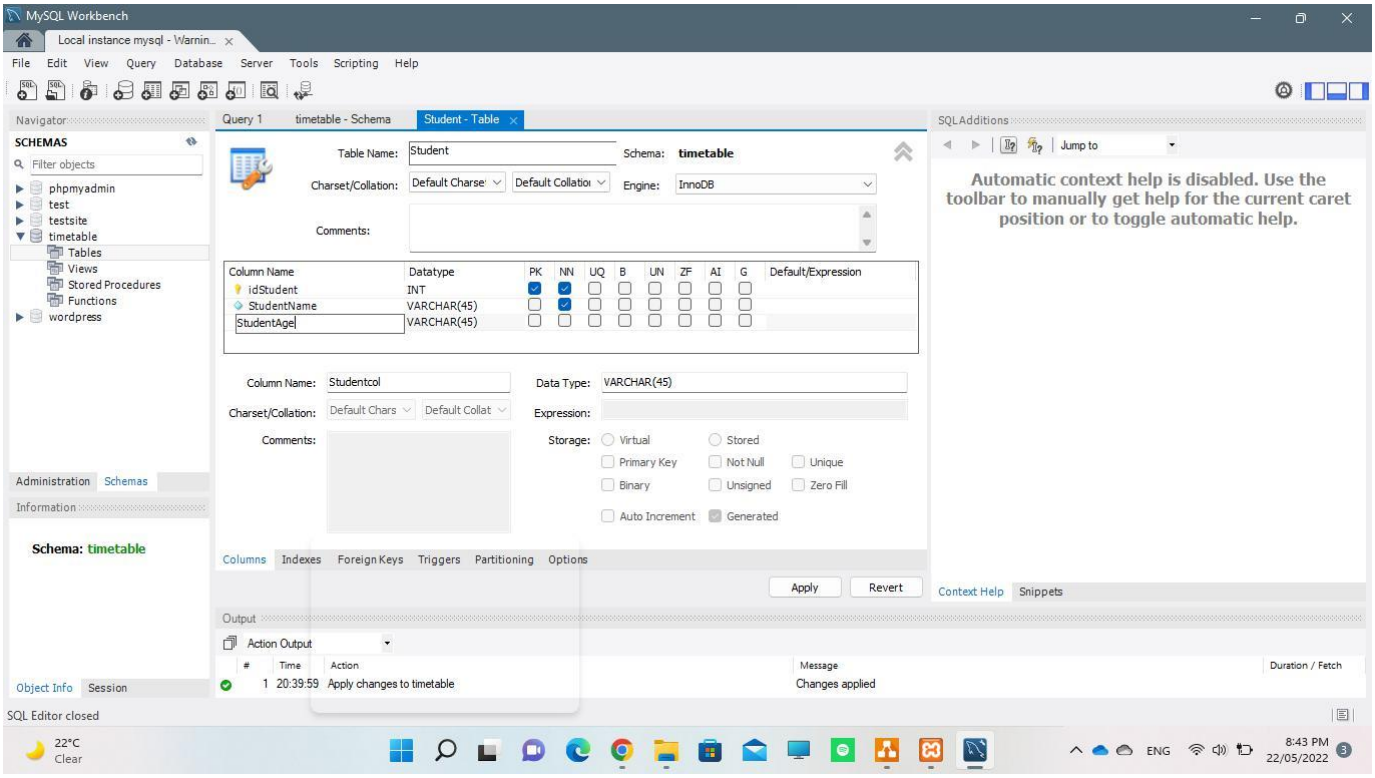
Our Database

By (My sql workbench)

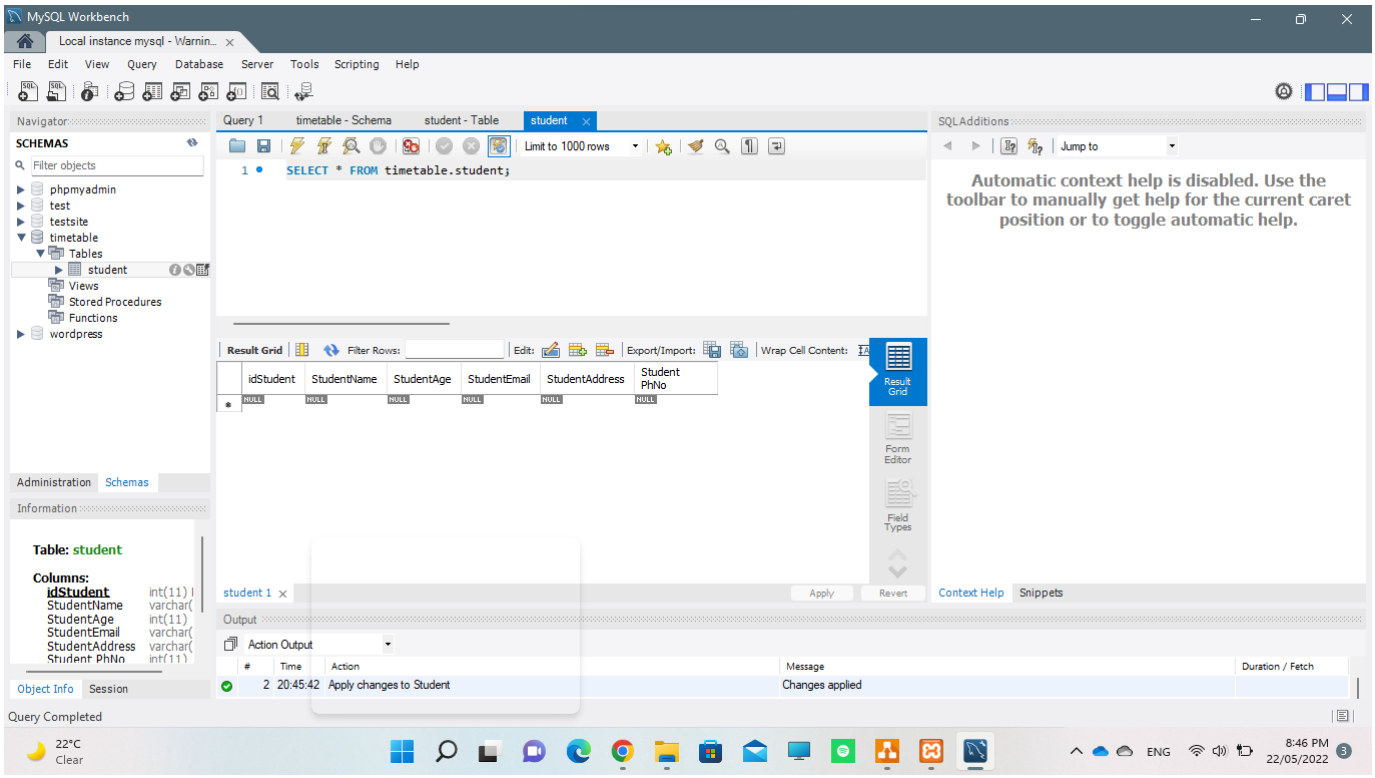
1


MySQL Workbench
Local instance mysql - Warnin...
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
phpmyadmin
test
testsite
timetable
Tables
Views
Stored Procedures
Functions
wordpress
Query 1
timetable - Schema
new_table - Table
Table Name: Student
Schema: timetable
Charset/Collation: Default Charse Default Collatio
Engine: InnoDB
Comments:
Column Name:
Data Type:
Default:
Storage: Virtual Stored
Primary Key Not Null Unique
Binary Unsigned Zero Fill
Auto Increment Generated
Columns Indexes Foreign Keys Triggers Partitioning Options
Apply Revert
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Administration Schemas
Information
Schema: timetable
Object Info Session
Output
Action Output
Time Action Message Duration / Fetch
1 20:39:59 Apply changes to timetable Changes applied
SQL Editor closed
22°C Clear
ENG
8:41 PM 22/05/2022

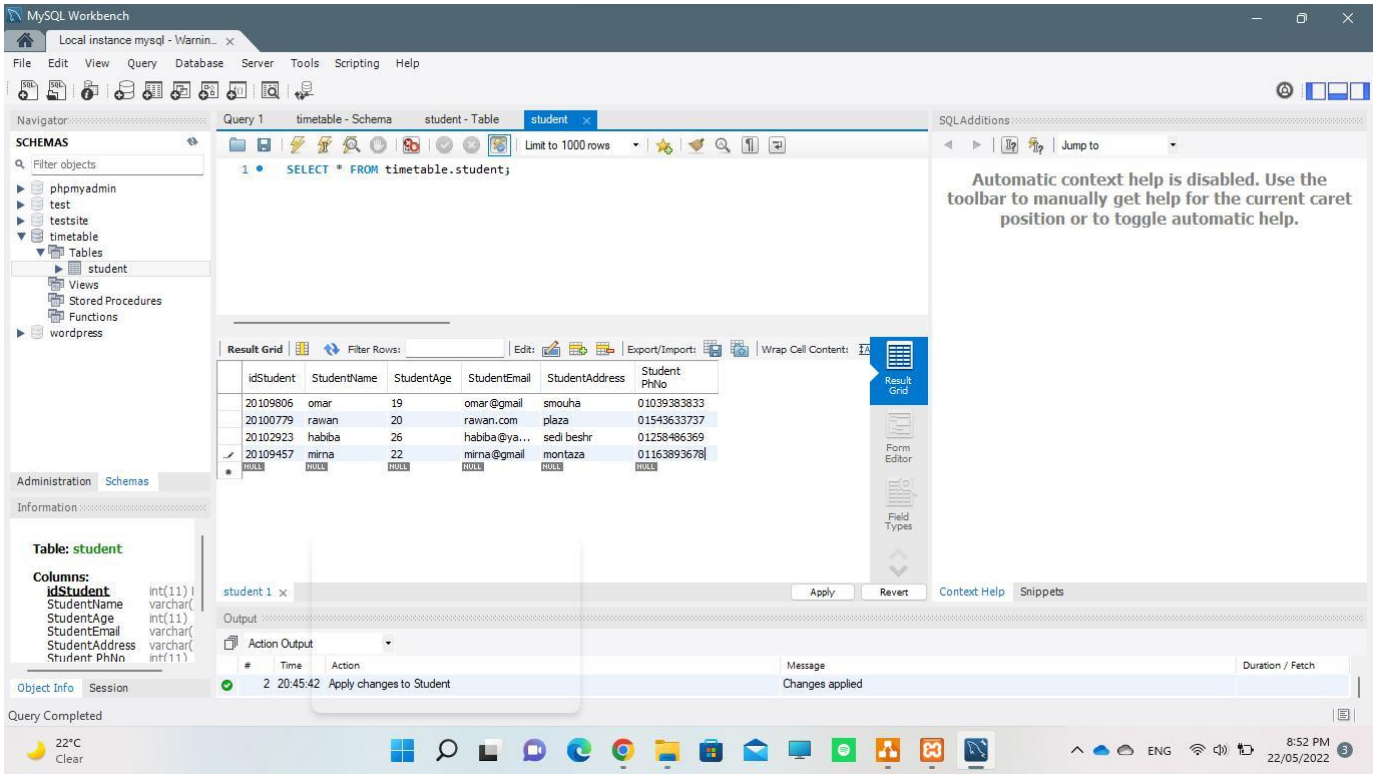
2


MySQL Workbench
Local instance mysql - Warnin...
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
phpmyadmin
test
testsite
timetable
Tables
Views
Stored Procedures
Functions
wordpress
Query 1
timetable - Schema
Student - Table
Table Name: Student
Schema: timetable
Charset/Collation: Default Charse Default Collatio
Engine: InnoDB
Comments:
Column Name Datatype PK NN UQ B UN ZF AI G Default/Expression
idStudent INT
StudentName VARCHAR(45)
StudentAge VARCHAR(45)
Column Name: Studentcol
Data Type: VARCHAR(45)
Charset/Collation: Default Chars Default Collat
Expression:
Comments:
Storage: Virtual Stored
Primary Key Not Null Unique
Binary Unsigned Zero Fill
Auto Increment Generated
Columns Indexes Foreign Keys Triggers Partitioning Options
Apply Revert
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Administration Schemas
Information
Schema: timetable
Object Info Session
Output
Action Output
Time Action Message Duration / Fetch
1 20:39:59 Apply changes to timetable Changes applied
SQL Editor closed
22°C Clear
ENG
8:43 PM 22/05/2022

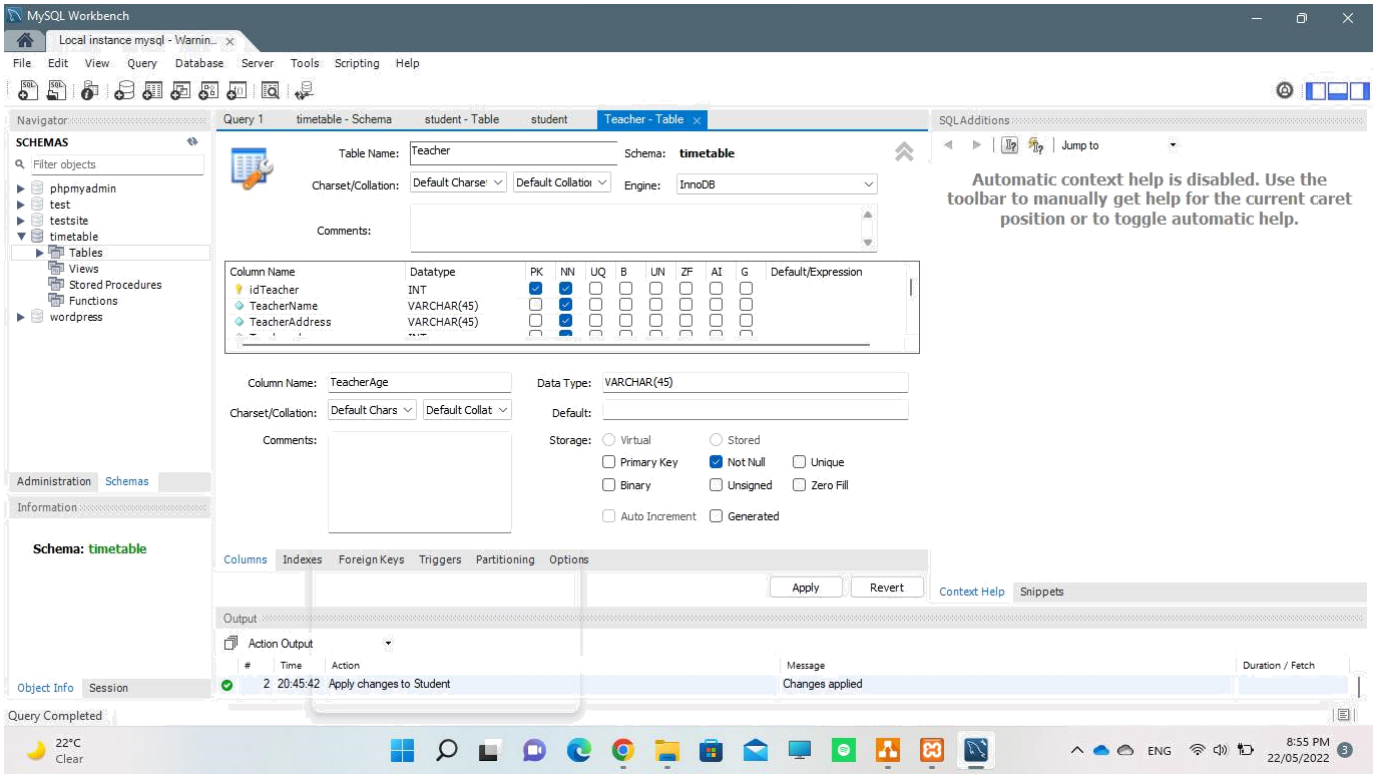
3


MySQL Workbench
Local instance mysql - Warnin...
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
phpmyadmin
test
testsite
timetable
Tables
student
Views
Stored Procedures
Functions
wordpress
Administration Schemas
Information
Table: student
Columns:
idStudent int(11) I
StudentName varchar(
StudentAge int(11)
StudentEmail varchar(
StudentAddress varchar(
Student PhNo int(11)
Object Info Session
Query 1 timetable - Schema student - Table student
Limit to 1000 rows
1 SELECT * FROM timetable.student;
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
idStudent StudentName StudentAge StudentEmail StudentAddress Student PhNo
NULL NULL NULL NULL NULL NULL
Result Grid
Form Editor
Field Types
student 1
Apply Revert
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
2 20:45:42 Apply changes to Student Changes applied
Query Completed
22°C Clear
ENG
8:46 PM 22/05/2022

4

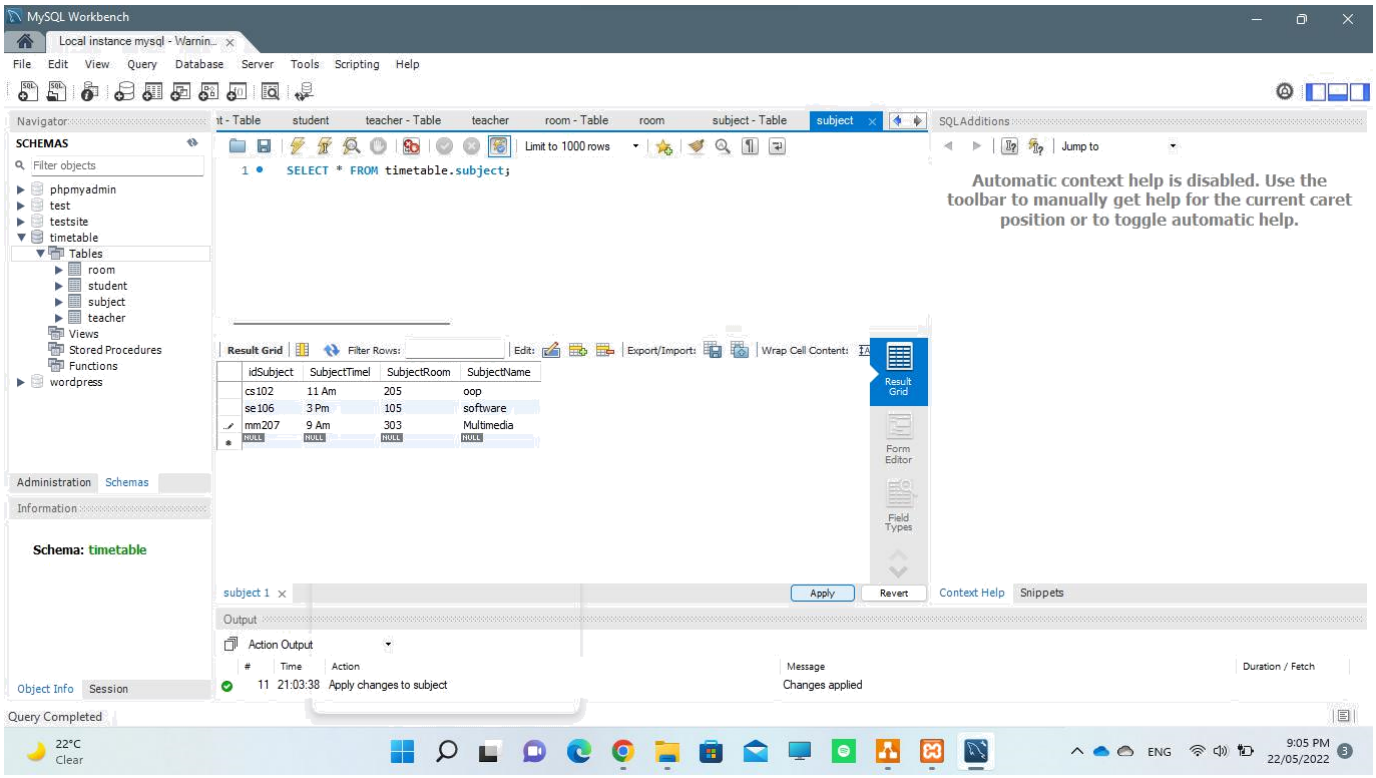

MySQL Workbench
Local instance mysql - Warnin...
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
phpmyadmin
test
testsite
timetable
Tables
student
Views
Stored Procedures
Functions
wordpress
Administration Schemas
Information
Table: student
Columns:
idStudent int(11) I
StudentName varchar(
StudentAge int(11)
StudentEmail varchar(
StudentAddress varchar(
Student PhNo int(11)
Object Info Session
Query 1 timetable - Schema student - Table student
Limit to 1000 rows
1 SELECT * FROM timetable.student;
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
idStudent StudentName StudentAge StudentEmail StudentAddress Student PhNo
20109806 omar 19 omar@gmail smouha 01039383833
20100779 rawan 20 rawan.com plaza 01543633737
20102923 habiba 26 habiba@ya... sedi beshr 01258486369
20109457 mirna 22 mirna@gmail montaza 01163893678
NULL NULL NULL NULL NULL NULL
Result Grid
Form Editor
Field Types
student 1
Apply Revert
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
2 20:45:42 Apply changes to Student Changes applied
Query Completed
22°C Clear
ENG
8:52 PM 22/05/2022

5



6

After adding Data


MySQL Workbench
Local instance mysql - Warnin...
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
phpmyadmin
test
testsite
timetable
Tables
room
student
subject
teacher
Views
Stored Procedures
Functions
wordpress
Administration Schemas
Information
Schema: timetable
Object Info Session
t - Table student teacher - Table teacher room - Table room subject - Table subject
Limit to 1000 rows
1 SELECT * FROM timetable.subject;
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
idSubject SubjectTimel SubjectRoom SubjectName
cs102 11 Am 205 oop
se106 3 Pm 105 software
mm207 9 Am 303 Multimedia
NULL NULL NULL NULL
Result Grid
Form Editor
Field Types
subject 1
Apply Revert
SQL Additions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
11 21:03:38 Apply changes to subject Changes applied
Query Completed
22°C Clear
ENG
9:05 PM 22/05/2022