

JAVA SWING BASED - Campus DataBase -SQL CONNECTIVITY USING JDBC

A

Report Submitted in partial fulfilment of the
Requirements for the award of the Degree
of

**BACHELOR OF ENGINEERING
IN**

INFORMATION TECHNOLOGY

BY

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Under

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BONAFIDE CERTIFICATE

This is to certify that this project report titled '**CAMPUS DATABASE**' is a project work of Y Sreesha bearing roll no 1602-21-737-055 who carried out the project under my supervision in the IV semester for the academic year 2022-2023.

Signature
Internal Examiner

Signature
External Examiner

ABSTRACT:

In this project, we are creating a campus database, in which we are calculating the percentage of parking utilised per block.

This project allows us to solve the problem of how much parking area is utilised per block in the campus. We can also know how many 2-wheelers are parked in the parking lot and also we can know the no. of 4-wheelers are parked.

Requirement analysis

List of Tables:

Campus

Block

Parking_slot

Calculates

List of Attributes with their attributes:

Campus

College _id Number (5)

College _name Varchar2(20)

Address Varchar2(20)

Block

Block_id varchar2(20)

Block_name Varchar2(20)

Total_capacity Number (3)

Parking_slot

College _id Number (5)

Total_Capacity Number (5)

Calculates

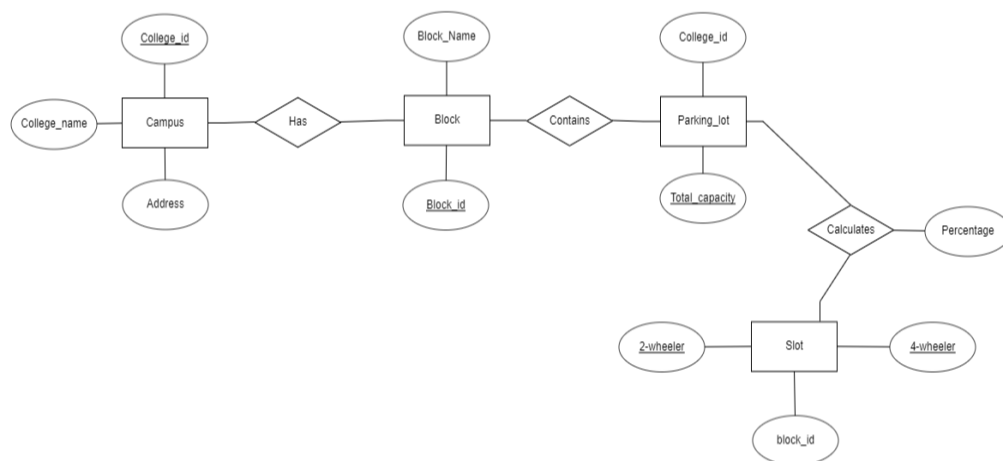
Percentage Number (5)

2-wheeler Number (5)

4-wheeler Number (5)

DESIGN

Entity Relationship Diagram



DDL COMMANDS:

1)

```
create table Campus(  
College_id Number(5),  
College_name varchar(20),  
Address varchar(20));
```

```
SQL> create table Campus(  
  2  College_id Number(5),  
  3  College_name varchar(20),  
  4  Address varchar(20));
```

Table created.

```
SQL> alter table Campus add primary key(College_id);
```

Table altered.

```
SQL> desc Campus
```

Name	Null?	Type
COLLEGE_ID	NOT NULL	NUMBER(5)
COLLEGE_NAME		VARCHAR2(20)
ADDRESS		VARCHAR2(20)

```
SQL> _
```

2)

create table Block(
2.Block_id varchar(5),
3. Block_name varchar(20));

SQL> alter table block add primary key(block_id);

```
SQL> create table Block(  
  2  Block_id varchar(5),  
  3  Block_name varchar(20));
```

Table created.

```
SQL> alter table block add primary key(block_id);
```

Table altered.

```
SQL> desc block
```

Name	Null?	Type
BLOCK_ID	NOT NULL	VARCHAR2(5)
BLOCK_NAME		VARCHAR2(20)

3)

create table parking_lot

2.(college_id Number(5),

3.Total_capacity Number(5));

SQL> alter table parking_lot

2.add primary key(total_capacity);

SQL> alter table parking_lot add foreign key(college_id) references campus;

```
SQL> create table parking_lot
  2  (college_id Number(5),
  3  Total_capacity Number(5));

Table created.

SQL> alter table parking_lot
  2  add primary key(total_capacity);

Table altered.

SQL> desc parking_lot;
Name                                         Null?    Type
-----
COLLEGE_ID                                  NUMBER(5)
TOTAL_CAPACITY                             NOT NULL NUMBER(5)
```

4)

create table slot

2.(two_wheeler Number(5),

3.four_wheeler number(5),

4.block_id varchar(5));

> alter table slot add foreign key(block_id) references block;

```
SQL> desc parking_lot
Name                                         Null?    Type
-----
COLLEGE_ID                                  NUMBER(5)
TOTAL_CAPACITY                             NOT NULL NUMBER(5)
```

5)

create table calculates

2. (total_capacity number(5),

3. two_wheeler number(5),

4. four_wheeler number(5),

5. percentage float(5));

>>alter table calculates add foreign key(total_capacity) references parking_lot;

```
SQL> create table calculates
  2  (total_capacity number(5),
  3  two_wheeler number(5),
  4  four_wheeler number(5),
  5  percentage float(5));
```

Table created.

```
SQL> alter table calculates add foreign key(total_capacity) references parking_lot;
Table altered.
```

DML OPERATIONS:

1) Inserting values into College Table

insert into campus values(&college_id,&college_name', '&address');

```

SQL> insert into campus values(&college_id,&college_name,&address');
Enter value for college_id: 1602
Enter value for college_name: vasavi
Enter value for address: hyderabad
old 1: insert into campus values(&college_id,&college_name,&address')
new 1: insert into campus values(1602,'vasavi','hyderabad')

1 row created.

SQL> /
Enter value for college_id: 1600
Enter value for college_name: OU
Enter value for address: HYD
old 1: insert into campus values(&college_id,&college_name,&address')
new 1: insert into campus values(1600,'OU','HYD')

1 row created.

SQL> /
Enter value for college_id: 4500
Enter value for college_name: KITS
Enter value for address: WGL
old 1: insert into campus values(&college_id,&college_name,&address')
new 1: insert into campus values(4500,'KITS','WGL')

1 row created.

```

```

SQL> select * from campus
2 ;

```

COLLEGE_ID	COLLEGE_NAME	ADDRESS
1602	vasavi	hyderabad
1600	OU	HYD
4500	KITS	WGL

2) Inserting values into Block Table

```
insert into block values('&block_id','&block_name');
```



```

SQL> insert into block values('&block_id','&block_name');
Enter value for block_id: V
Enter value for block_name: vishwesraya
old 1: insert into block values('&block_id','&block_name')
new 1: insert into block values('V','vishwesraya')

1 row created.

SQL> /
Enter value for block_id: R
Enter value for block_name: ramanujan
old 1: insert into block values('&block_id','&block_name')
new 1: insert into block values('R','ramanujan')

1 row created.

SQL> /
Enter value for block_id: CVR
Enter value for block_name: CVRaman
old 1: insert into block values('&block_id','&block_name')
new 1: insert into block values('CVR','CVRaman')

1 row created.

SQL> /
Enter value for block_id: Jc
Enter value for block_name: JC Bose
old 1: insert into block values('&block_id','&block_name')
new 1: insert into block values('Jc','JC Bose')

1 row created.

SQL> /
Enter value for block_id: L
Enter value for block_name: Library
old 1: insert into block values('&block_id','&block_name')
new 1: insert into block values('L','Library')

1 row created.

```

3) Inserting values into Parking_lot:

```
insert into parking_lot values(&college_id,&total_capacity);
```

```
SQL> /
Enter value for college_id: 4500
Enter value for total_capacity: 150
old 1: insert into parking_lot values(&college_id,&total_capacity)
new 1: insert into parking_lot values(4500,150)

1 row created.
```

```
SQL> insert into parking_lot values(&college_id,&total_capacity);
Enter value for college_id: 1602
Enter value for total_capacity: 100
old 1: insert into parking_lot values(&college_id,&total_capacity)
new 1: insert into parking_lot values(1602,100)

1 row created.
```

```
SQL> select* from parking_lot;

COLLEGE_ID TOTAL_CAPACITY
-----
1602      100
1600      500
4500      150
```

```
SQL> select * from block;

BLOCK BLOCK_NAME
-----
V      vishwesraya
R      ramanujan
CVR    CVRaman
Jc     JC Bose
L      Library

SQL> █
```

```
SQL> /
Enter value for college_id: 1600
Enter value for total_capacity: 500
old 1: insert into parking_lot values(&college_id,&total_capacity)
new 1: insert into parking_lot values(1600,500)

1 row created.
```

4) Inserting values into Slot

```
insert into slot values(&two_wheeler,&four_wheeler,'&Block_id');
```

```
SQL> insert into slot values(&two_wheeler,&four_wheeler,'&Block_id');
Enter value for two_wheeler: 60
Enter value for four_wheeler: 40
Enter value for block_id: V
old 1: insert into slot values(&two_wheeler,&four_wheeler,'&Block_id')
new 1: insert into slot values(60,40,'V')

1 row created.
```

```
SQL> /
Enter value for two_wheeler: 30
Enter value for four_wheeler: 20
Enter value for block_id: R
old 1: insert into slot values(&two_wheeler,&four_wheeler,'&Block_id')
new 1: insert into slot values(30,20,'R')

1 row created.

SQL> /
```

```
SQL> /
Enter value for two_wheeler: 60
Enter value for four_wheeler: 20
Enter value for block_id: Jc
old 1: insert into slot values(&two_wheeler,&four_wheeler,'&Block_id')
new 1: insert into slot values(60,20,'Jc')

1 row created.
```

Implementation:

Front end programs and its connectivity Java Database Connectivity (JDBC) is an application programming interface (API) for the programming language Java, which defines how a client may access a database. It is a Java-based data access technology used for Java database connectivity. It is part of the Java Standard Edition platform, from Oracle Corporation. It provides methods to query and update data in a database and is oriented towards relational databases. The connection to the database can be performed using Java programming (JDBC API) as:

```

public void connectToDB()

{   try

{

connection

=

DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","sreesha","sreesha");

statement = connection.createStatement();

}

catch (SQLException connectException)

{

System.out.println(connectException.getMessage())

;

System.out.println(connectException.getSQLState()

);

System.out.println(connectException.getErrorCode());

System.exit(1);

}

}

```

Thus, the connection from Java to Oracle database is performed and therefore, can be used for updating tables in the database directly.

BLOCK.JAVA

```
public class Block extends javax.swing.JFrame

    public Block() {

initComponents();

        } @SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated
Code">//GEN-BEGIN:initComponents

private void initComponents() {

    jButton1 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    setTitle("Block");

    jButton1.setText("jButton1");

    jButton1.addActionListener(new java.awt.event.ActionListener() {

        public void actionPerformed(java.awt.event.ActionEvent evt) {

            jButton1ActionPerformed(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()

                .addGap(174, 174, 174)

                .addComponent(jButton1)


```

```

        .addContainerGap(193, Short.MAX_VALUE));

layout.setVerticalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(layout.createSequentialGroup()

            .addGap(138, 138, 138)

            .addComponent(jButton1)

            .addContainerGap(140, Short.MAX_VALUE))

        );

    pack();

} // </editor-fold> // GEN-END:initComponents

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt)
{ // GEN-FIRST:event_jButton1ActionPerformed

    // TODO add your handling code here:

} // GEN-LAST:event_jButton1ActionPerformed

public static void main(String args[]) {

    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(Block.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
```

```
    } catch (InstantiationException ex) {
```

```
java.util.logging.Logger.getLogger(Block.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
```

```
    } catch (IllegalAccessException ex) {
```

```
java.util.logging.Logger.getLogger(Block.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
```

```
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

```
java.util.logging.Logger.getLogger(Block.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
```

```
    }
```

```
    java.awt.EventQueue.invokeLater(new Runnable() {
```

```
        public void run() {
```

```
            new Block().setVisible(true);
```

```
        }
```

```
    });
```

```
}
```

```
}
```

BLOCK_VIEW.JAVA

```
import java.sql.Connection;
```

```
import java.sql.Driver;
```

```

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.Statement;

import javax.swing.table.DefaultTableModel;

public class Block_View extends javax.swing.JFrame {

    public Block_View() {

        initComponents();

    }

    // <editor-fold defaultstate="collapsed" desc="Generated
Code">//GEN-BEGIN:initComponents

    private void initComponents() {

        jScrollPane1 = new javax.swing.JScrollPane();

        blockView = new javax.swing.JTable();

        jButton1 = new javax.swing.JButton();

        jButton2 = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        setTitle("Block View");

        blockView.setModel(new javax.swing.table.DefaultTableModel(

            new Object [][] {

                },

            new String [] {

                "Block Id", "Block Name", "College Id"

            }

        ) {

```



```

Class[] types = new Class [] {
    java.lang.String.class, java.lang.String.class, java.lang.Integer.class
};

boolean[] canEdit = new boolean [] {
    false, false, false
};

public Class getColumnClass(int columnIndex) {
    return types [columnIndex];
}

public boolean isCellEditable(int rowIndex, int columnIndex) {
    return canEdit [columnIndex];
}
});

jScrollPane1.setViewportViewView(blockView);

if (blockView.getColumnModel().getColumnCount() > 0) {
    blockView.getColumnModel().getColumn(0).setResizable(false);
    blockView.getColumnModel().getColumn(1).setResizable(false);
    blockView.getColumnModel().getColumn(2).setResizable(false);
}

jButton1.setFont(new java.awt.Font("Segoe UI Black", 0, 14)); // NOI18N
jButton1.setText("View");

jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

```

```
}  
});
```

```
jButton2.setText("Back");  
  
jButton2.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton2ActionPerformed(evt);  
    }  
});
```

```
javax.swing.GroupLayout layout = new  
javax.swing.GroupLayout(getContentPane());  
  
getContentPane().setLayout(layout);  
  
layout.setHorizontalGroup(  
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
layout.createSequentialGroup()  
            .addGap(0, 115, Short.MAX_VALUE)  
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,  
350, javax.swing.GroupLayout.PREFERRED_SIZE)  
            .addGap(88, 88, 88))  
        .addGroup(layout.createSequentialGroup()  
  
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
            .addGroup(layout.createSequentialGroup()  
                .addGap(16, 16, 16)
```

```

        .addComponent(jButton2))

        .addGroup(layout.createSequentialGroup())

        .addGap(218, 218, 218)

        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE,
109, javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))

    );

    layout.setVerticalGroup(

        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(layout.createSequentialGroup())

        .addContainerGap(25, Short.MAX_VALUE)

        .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 28,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(1, 1, 1)

        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
194, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(26, 26, 26)

        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 32,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(30, 30, 30))

    );

    pack();

} // </editor-fold> // GEN-END:initComponents

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt)
{ // GEN-FIRST:event_jButton1ActionPerformed

```

```
// TODO add your handling code here:

Connection con =null;

try
{
    Driver myDriver = new oracle.jdbc.driver.OracleDriver();

    DriverManager.registerDriver( myDriver );

    con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE",
"sreesha", "sreesha");

    Statement stmt = con.createStatement();

    ResultSet Rs = stmt.executeQuery("select * from block");

    DefaultTableModel model = (DefaultTableModel)blockView.getModel();

    while(Rs.next()){

        model.addRow(new Object[]{Rs.getString("Block_id"),
Rs.getString("Block_Name"),Rs.getInt("College_id")});

    }

    System.out.println("Values retrived");

    //stmt.close();

    con.close()

}catch(Exception e){

    System.out.println(e);

}

}

}

//GEN-LAST:event_jButton1ActionPerformed
```

```

        private void jButton2ActionPerformed(java.awt.event.ActionEvent evt)
{
//GEN-FIRST:event_jButton2ActionPerformed

        // TODO add your handling code here:

        Campus c_b= new Campus();

        c_b.show();

        dispose();

}
//GEN-LAST:event_jButton2ActionPerformed;

public static void main(String args[]) {

    java.awt.EventQueue.invokeLater(new Runnable() {

        public void run() {

            new Block_View().setVisible(true);

        }

    });

}

```

// Variables declaration - do not modify//GEN-BEGIN:variables

```

private javax.swing.JTable blockView;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JScrollPane jScrollPane1;

// End of variables declaration//GEN-END:variables

}

```

BLOCK_DELETE.JAVA

```

import java.sql.Connection;

```

```
import java.sql.Driver;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.Statement;

import javax.swing.JOptionPane;

public class Block_Delete extends javax.swing.JFrame {

    public Block_Delete() {

        initComponents();

    }

    // <editor-fold defaultstate="collapsed" desc="Generated
Code"> //GEN-BEGIN: initComponents

    private void initComponents() {

        jLabel4 = new javax.swing.JLabel();

        jLabel1 = new javax.swing.JLabel();

        jLabel2 = new javax.swing.JLabel();

        jLabel3 = new javax.swing.JLabel();

        jTextField1 = new javax.swing.JTextField();

        jTextField2 = new javax.swing.JTextField();

        jTextField3 = new javax.swing.JTextField();

        jButton1 = new javax.swing.JButton();

        jComboBox1 = new javax.swing.JComboBox<>();

        jButton2 = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
```

```

setTitle("Block Deletion");

jLabel4.setFont(new java.awt.Font("Segoe UI Black", 0, 14)); // NOI18N
jLabel4.setText("Enter the Details to Delete");

jLabel1.setFont(new java.awt.Font("Segoe UI Black", 0, 14)); // NOI18N
jLabel1.setText("Block Id    :");

jLabel2.setFont(new java.awt.Font("Segoe UI Black", 0, 14)); // NOI18N
jLabel2.setText("Block Name :");

jLabel3.setFont(new java.awt.Font("Segoe UI Black", 0, 14)); // NOI18N
jLabel3.setText("College Id  :");

jTextField3.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jTextField3ActionPerformed(evt);

    }

});

jButton1.setText("Delete");

jButton1.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jButton1ActionPerformed(evt);

    }

});

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[]
{ "V", "R", "Lib", "JC", "C", " " }));

jComboBox1.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

```

```
jComboBox1ActionPerformed(evt);  
  
    }  
  
});  
  
jButton2.setText("BACK");  
  
jButton2.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton2ActionPerformed(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()  
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
            .addGroup(layout.createSequentialGroup()  
                .addComponent(jLabel2,  
                    javax.swing.GroupLayout.PREFERRED_SIZE, 133,  
                    javax.swing.GroupLayout.PREFERRED_SIZE)  
                .addPreferredGap(LayoutStyle.ComponentPlacement.RELATED)  
                .addComponent(jTextField1,  
                    javax.swing.GroupLayout.PREFERRED_SIZE, 170,  
                    javax.swing.GroupLayout.PREFERRED_SIZE)  
            )  
        )  
    );
```



```
.addComponent(jLabel3,  
javax.swing.GroupLayout.Alignment.TRAILING,  
javax.swing.GroupLayout.PREFERRED_SIZE, 133,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
  
.addGap(18, 18, 18)  
  
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
  
.addComponent(jTextField3,  
javax.swing.GroupLayout.Alignment.TRAILING,  
javax.swing.GroupLayout.PREFERRED_SIZE, 149,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
  
.addComponent(jTextField2,  
javax.swing.GroupLayout.Alignment.TRAILING,  
javax.swing.GroupLayout.PREFERRED_SIZE, 149,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
  
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
  
.addComponent(jComboBox1,  
javax.swing.GroupLayout.PREFERRED_SIZE, 96,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
  
.addComponent(jTextField1,  
javax.swing.GroupLayout.PREFERRED_SIZE, 149,  
javax.swing.GroupLayout.PREFERRED_SIZE)))  
  
.addGap(70, 70, 70))  
  
.addGroup(layout.createSequentialGroup()  
  
.addGap(193, 193, 193)  
  
.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE,  
88, javax.swing.GroupLayout.PREFERRED_SIZE))  
  
.addGroup(layout.createSequentialGroup()  
  
.addGap(26, 26, 26)
```

```

        .addComponent(jButton2)

        .addGap(35, 35, 35)

        .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE,
237, javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addContainerGap(63, 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(26, 26, 26)

                    .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE,
31, javax.swing.GroupLayout.PREFERRED_SIZE)

                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 48,
Short.MAX_VALUE))

                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())

                    .addContainerGap()

                    .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addGap(18, 18, 18)))

            .addGap(10, 10, 10)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
)

```

```
.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 22,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
)

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(18, 18, 18)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addContainerGap(43, Short.MAX_VALUE))

);
```

```

        pack();

    } // </editor-fold> // GEN-END: initComponents

    private void jTextField3ActionPerformed(java.awt.event.ActionEvent evt)
    { // GEN-FIRST: event_jTextField3ActionPerformed

        // TODO add your handling code here:

    } // GEN-LAST: event_jTextField3ActionPerformed

    private void jComboBox1ActionPerformed(java.awt.event.ActionEvent evt)
    { // GEN-FIRST: event_jComboBox1ActionPerformed

        // TODO add your handling code here:

        String selectedvalue1 = jComboBox1.getSelectedItem().toString();

        jTextField1.setText(selectedvalue1);

    } // GEN-LAST: event_jComboBox1ActionPerformed

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt)
    { // GEN-FIRST: event_jButton1ActionPerformed

        // TODO add your handling code here:

        Connection con = null;

        PreparedStatement pst = null;

        try
        {

            Driver myDriver = new oracle.jdbc.driver.OracleDriver();

            DriverManager.registerDriver( myDriver );

            con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE",
            "sreesha", "sreesha");

            Statement stmt = con.createStatement();

```



```

        javax.swing.UIManager.setLookAndFeel(info.getClassName());

        break;
    }

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Block_Delete.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);

    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Block_Delete.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);

    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Block_Delete.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Block_Delete.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 Block_Delete().setVisible(true);

```

```
    }  
    });  
}  
  
// Variables declaration - do not modify//GEN-BEGIN:variables  
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton2;  
private javax.swing.JComboBox<String> jComboBox1;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JTextField jTextField1;  
private javax.swing.JTextField jTextField2;  
private javax.swing.JTextField jTextField3;  
  
// End of variables declaration//GEN-END:variables  
}
```

BLOCK_INSERT.JAVA

```
import java.sql.Connection;  
  
import java.sql.Driver;  
  
import java.sql.DriverManager;  
  
import java.sql.ResultSet;
```

```

import java.sql.Statement;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;

public class Block_insert extends javax.swing.JFrame {

    public Block_insert() {

        initComponents();

    }

    // <editor-fold defaultstate="collapsed" desc="Generated
Code">//GEN-BEGIN: initComponents

    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();

        jLabel2 = new javax.swing.JLabel();

        jLabel3 = new javax.swing.JLabel();

        JTF_block_id = new javax.swing.JTextField();

        JTF_block_name = new javax.swing.JTextField();

        JTF_college_id = new javax.swing.JTextField();

        JB_Block_insert = new javax.swing.JButton();

        jScrollPane1 = new javax.swing.JScrollPane();

        Block_view = new javax.swing.JTable();

        JB_Block_view = new javax.swing.JButton();

        jLabel4 = new javax.swing.JLabel();

        jButton1 = new javax.swing.JButton();

        jMenuBar1 = new javax.swing.JMenuBar();

        Jmenu = new javax.swing.JMenu();

```



```
Jmenu_insert = new javax.swing.JMenuItem();

Campus_update = new javax.swing.JMenuItem();

Campus_delete = new javax.swing.JMenuItem();

Campus_view = new javax.swing.JMenuItem();

jMenu2 = new javax.swing.JMenu();

Block_insert = new javax.swing.JMenuItem();

Block_update = new javax.swing.JMenuItem();

Block_delete = new javax.swing.JMenuItem();

BlockView = new javax.swing.JMenuItem();

jMenu3 = new javax.swing.JMenu();

jMenuItem9 = new javax.swing.JMenuItem();

jMenuItem10 = new javax.swing.JMenuItem();

jMenuItem11 = new javax.swing.JMenuItem();

jMenuItem12 = new javax.swing.JMenuItem();

jMenu4 = new javax.swing.JMenu();

jMenuItem13 = new javax.swing.JMenuItem();

jMenuItem14 = new javax.swing.JMenuItem();

jMenuItem15 = new javax.swing.JMenuItem();

jMenuItem16 = new javax.swing.JMenuItem();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

setTitle("Block Insertion");

jLabel1.setFont(new java.awt.Font("Segoe UI Black", 0, 14)); // NOI18N

jLabel1.setText("Block Id      :");
```

```

jLabel2.setFont(new java.awt.Font("Segoe UI Black", 0, 14)); // NOI18N
jLabel2.setText("Block Name :");

jLabel3.setFont(new java.awt.Font("Segoe UI Black", 0, 14)); // NOI18N
jLabel3.setText("College_id  :");

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

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

JB_Block_insert.setFont(new java.awt.Font("Segoe UI Black", 0, 14)); // NOI18N
JB_Block_insert.setText("Insert");

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

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

```

```

    },

    new String [] {

        "Block ID", "Block Name", "College_ID"

    }

) {

    Class[] types = new Class [] {

        java.lang.Integer.class, java.lang.String.class, java.lang.Integer.class

    };

    public Class getColumnClass(int columnIndex) {

        return types [columnIndex];

    }

});

jScrollPane1.setViewportViewView(Block_view);

JB_Block_view.setFont(new java.awt.Font("Segoe UI Black", 0, 14)); // NOI18N

JB_Block_view.setText("View");

JB_Block_view.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        JB_Block_viewActionPerformed(evt);

    }

});

jLabel4.setFont(new java.awt.Font("Segoe UI Black", 0, 14)); // NOI18N

jLabel4.setText("Enter the details to Insert");

jButton1.setText("BACK");

```

```
jButton1.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton1ActionPerformed(evt);  
    }  
});  
  
Jmenu.setText("Campus");  
  
Jmenu_insert.setText("Insert");  
  
Jmenu_insert.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        Jmenu_insertActionPerformed(evt);  
    }  
});  
  
Jmenu.add(Jmenu_insert);  
  
Campus_update.setText("Update");  
  
Jmenu.add(Campus_update);  
  
Campus_delete.setText("Delete");  
  
Jmenu.add(Campus_delete);  
  
Campus_view.setText("View");  
  
Campus_view.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        Campus_viewActionPerformed(evt);  
    }  
});  
  
Jmenu.add(Campus_view);
```

```
jMenuBar1.add(Jmenu);

jMenu2.setText("Block");

Block_insert.setText("Insert");

jMenu2.add(Block_insert);

Block_update.setText("Update");

jMenu2.add(Block_update);

Block_delete.setText("Delete");

jMenu2.add(Block_delete);

BlockView.setText("View");

jMenu2.add(BlockView);

jMenuBar1.add(jMenu2);

jMenu3.setText("Parking Slot");

jMenuItem9.setText("Insert");

jMenu3.add(jMenuItem9);

jMenuItem10.setText("Update");

jMenu3.add(jMenuItem10);

jMenuItem11.setText("Delete");

jMenuItem11.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jMenuItem11ActionPerformed(evt);

    }

});

jMenu3.add(jMenuItem11);

jMenuItem12.setText("View");
```

```

jMenu3.add(jMenuItem12);

jMenuBar1.add(jMenu3);

jMenu4.setText("Slot");

jMenuItem13.setText("Insert");

jMenu4.add(jMenuItem13);

jMenuItem14.setText("Update");

jMenuItem14.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jMenuItem14ActionPerformed(evt);

    }

});

jMenu4.add(jMenuItem14);

jMenuItem15.setText("Delete");

jMenu4.add(jMenuItem15);

jMenuItem16.setText("View");

jMenu4.add(jMenuItem16);

jMenuBar1.add(jMenu4);

setJMenuBar(jMenuBar1);

javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .add(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jTextField1, javax.swing.GroupLayout.DEFAULT_SIZE, 200, true)
                .addComponent(jMenuItem11, javax.swing.GroupLayout.DEFAULT_SIZE, 100, true)
                .addComponent(jMenuItem12, javax.swing.GroupLayout.DEFAULT_SIZE, 100, true)
                .addComponent(jMenuItem13, javax.swing.GroupLayout.DEFAULT_SIZE, 100, true)
                .addComponent(jMenuItem14, javax.swing.GroupLayout.DEFAULT_SIZE, 100, true)
                .addComponent(jMenuItem15, javax.swing.GroupLayout.DEFAULT_SIZE, 100, true)
                .addComponent(jMenuItem16, javax.swing.GroupLayout.DEFAULT_SIZE, 100, true)
            )
            .addContainerGap(100, true)
        )
    );

}

}

```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
    .addGroup(layout.createSequentialGroup()
```

```
        .addGap(33, 33, 33)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,  
false)
```

```
    .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
```

```
    .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
```

```
    .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
```

```
    .addGap(43, 43, 43)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,  
false)
```

```
    .addComponent(JTF_block_id)
```

```
    .addComponent(JTF_block_name)
```

```
    .addComponent(JTF_college_id,  
javax.swing.GroupLayout.DEFAULT_SIZE, 141, Short.MAX_VALUE))
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 46,  
Short.MAX_VALUE))
```

```
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
layout.createSequentialGroup()
```

```
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,  
Short.MAX_VALUE)
```

```
        .addComponent(jButton1)
```

```

        .addGap(18, 18, 18)

        .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE,
203, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(52, 52, 52)))

        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
285, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(14, 14, 14))

    .addGroup(layout.createSequentialGroup())

        .addGap(112, 112, 112)

        .addComponent(JB_Block_insert,
javax.swing.GroupLayout.PREFERRED_SIZE, 88,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addComponent(JB_Block_view, javax.swing.GroupLayout.PREFERRED_SIZE,
103, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(113, 113, 113))

);

layout.setVerticalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(layout.createSequentialGroup())

            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                .addGroup(layout.createSequentialGroup())

                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                        .addGroup(layout.createSequentialGroup())

```



```

        .addGap(35, 35, 35)

        .addComponent(jLabel4,
javax.swing.GroupLayout.PREFERRED_SIZE, 42,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGroup(layout.createSequentialGroup())

        .addGap(18, 18, 18)

        .addComponent(jButton1)))

    .addGap(18, 18, 18)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jLabel1,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 29,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(JTF_block_id,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
)

        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,
29, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(JTF_block_name,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(21, 21, 21)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE,
29, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(JTF_college_id,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addGroup(layout.createSequentialGroup())

        .addGap(57, 57, 57)

        .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 197,
javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addGap(52, 52, 52)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
)

        .addComponent(JB_Block_insert,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(JB_Block_view,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(0, 29, Short.MAX_VALUE))

    );

    pack();

} // </editor-fold> // GEN-END: initComponents

private void JTF_block_nameActionPerformed(java.awt.event.ActionEvent evt)
{ // GEN-FIRST: event_JTF_block_nameActionPerformed

    // TODO add your handling code here:

} // GEN-LAST: event_JTF_block_nameActionPerformed

```

```

private void Campus_viewActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event_Campus_viewActionPerformed

    // TODO add your handling code here:

}//GEN-LAST:event_Campus_viewActionPerformed

private void jMenuItem11ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event_jMenuItem11ActionPerformed

    // TODO add your handling code here:

}//GEN-LAST:event_jMenuItem11ActionPerformed

private void jMenuItem14ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event_jMenuItem14ActionPerformed

    // TODO add your handling code here:

}//GEN-LAST:event_jMenuItem14ActionPerformed

private void JB_Block_insertActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event_JB_Block_insertActionPerformed

    // TODO add your handling code here:

    Connection con =null;

    try
    {

        Driver myDriver = new oracle.jdbc.driver.OracleDriver();

        DriverManager.registerDriver( myDriver );

        con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE",
"sreesha", "sreesha");

        Statement stmt = con.createStatement();

        String query= "INSERT INTO block VALUES(" + ""+JTF_block_id.getText() +"" +
", "+ "" +JTF_block_name.getText() +"" , "+ ""+JTF_college_id.getText() +"" );

        int i = stmt.executeUpdate(query);

```

```

JOptionPane.showMessageDialog(this, "Inserted Succesfully !!!!");

System.out.println("Inserted ....");

stmt.close();

con.close();

}catch(Exception e){

    System.out.println(e);

}

}

}

//GEN-LAST:event_JB_Block_insertActionPerformed

private void JTF_college_idActionPerformed(java.awt.event.ActionEvent evt)
{
//GEN-FIRST:event_JTF_college_idActionPerformed

    // TODO add your handling code here:

}

//GEN-LAST:event_JTF_college_idActionPerformed

private void JB_Block_viewActionPerformed(java.awt.event.ActionEvent evt)
{
//GEN-FIRST:event_JB_Block_viewActionPerformed

    // TODO add your handling code here:

    Connection con =null;

    try

    {

        Driver myDriver = new oracle.jdbc.driver.OracleDriver();

        DriverManager.registerDriver( myDriver );

        con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE",
"sreesha", "sreesha");

        Statement stmt = con.createStatement();

        ResultSet Rs = stmt.executeQuery("select * from block");

        DefaultTableModel model = (DefaultTableModel)JB_Block_view.getModel();

```

```
while(Rs.next()){  
    model.addRow(new Object[]{Rs.getString("block_id"),  
Rs.getString("block_Name"),Rs.getInt("College_id")});  
  
}  
  
System.out.println("Values retrived");  
  
con.close();  
  
}catch(Exception e){  
  
    System.out.println(e);  
  
}  
  
} //GEN-LAST:event_JB_Block_viewActionPerformed  
  
private void Jmenu_insertActionPerformed(java.awt.event.ActionEvent evt)  
{ //GEN-FIRST:event_Jmenu_insertActionPerformed  
  
    // TODO add your handling code here:  
  
    Campus_insert ci=new Campus_insert();  
  
    ci.show();  
  
    dispose();  
  
} //GEN-LAST:event_Jmenu_insertActionPerformed  
  
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt)  
{ //GEN-FIRST:event_jButton1ActionPerformed  
  
    // TODO add your handling code here:  
  
    Campus c_b=new Campus();  
  
    c_b.show();  
  
    dispose();  
  
} //GEN-LAST:event_jButton1ActionPerformed  
  
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(Block_insert.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);

        } catch (InstantiationException ex) {
java.util.logging.Logger.getLogger(Block_insert.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);

        } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(Block_insert.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);

        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(Block_insert.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);

        }

        java.awt.EventQueue.invokeLater(new Runnable() {

            public void run() {

                new Block_insert().setVisible(true);

            }

        });

    }

```

```
// Variables declaration - do not modify//GEN-BEGIN:variables
```

```
private javax.swing.JMenuItem BlockView;
```

```
private javax.swing.JMenuItem Block_delete;
```

```
private javax.swing.JMenuItem Block_insert;
```

```
private javax.swing.JMenuItem Block_update;
```

```
private javax.swing.JTable Block_view;
```

```
private javax.swing.JMenuItem Campus_delete;
```

```
private javax.swing.JMenuItem Campus_update;
```

```
private javax.swing.JMenuItem Campus_view;
```

```
private javax.swing.JButton JB_Block_insert;
```

```
private javax.swing.JButton JB_Block_view;
```

```
private javax.swing.JTextField JTF_block_id;
```

```
private javax.swing.JTextField JTF_block_name;
```

```
private javax.swing.JTextField JTF_college_id;
```

```
private javax.swing.JMenu Jmenu;
```

```
private javax.swing.JMenuItem Jmenu_insert;
```

```
private javax.swing.JButton jButton1;
```

```
private javax.swing.JLabel jLabel1;
```

```
private javax.swing.JLabel jLabel2;
```

```
private javax.swing.JLabel jLabel3;
```

```
private javax.swing.JLabel jLabel4;
```

```
private javax.swing.JMenu jMenu2;
```

```
private javax.swing.JMenu jMenu3;
```

```
private javax.swing.JMenu jMenu4;
```

```
private javax.swing.JMenuBar jMenuBar1;

private javax.swing.JMenuItem jMenuItem10;

private javax.swing.JMenuItem jMenuItem11;

private javax.swing.JMenuItem jMenuItem12;

private javax.swing.JMenuItem jMenuItem13;

private javax.swing.JMenuItem jMenuItem14;

private javax.swing.JMenuItem jMenuItem15;

private javax.swing.JMenuItem jMenuItem16;

private javax.swing.JMenuItem jMenuItem9;

private javax.swing.JScrollPane jScrollPane1;

// End of variables declaration//GEN-END:variables

}
```

CAMPUS.JAVA

```
public class Campus extends javax.swing.JFrame {

    public Campus() {

        initComponents();

    }

}
```

```
// <editor-fold defaultstate="collapsed" desc="Generated
Code">//GEN-BEGIN: initComponents
```

```
private void initComponents() {

    jLabel1 = new javax.swing.JLabel();

    jPanel1 = new javax.swing.JPanel();

}
```



```
jLabel4 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jMenuBar1 = new javax.swing.JMenuBar();

jMenu1 = new javax.swing.JMenu();

c_insert = new javax.swing.JMenuItem();

C_update = new javax.swing.JMenuItem();

c_delete = new javax.swing.JMenuItem();

c_view = new javax.swing.JMenuItem();

jMenu2 = new javax.swing.JMenu();

Block_insert = new javax.swing.JMenuItem();

Block_update = new javax.swing.JMenuItem();

Block_delete = new javax.swing.JMenuItem();

Block_view = new javax.swing.JMenuItem();

jMenu4 = new javax.swing.JMenu();

s_insert = new javax.swing.JMenuItem();

slot_update = new javax.swing.JMenuItem();

s_View = new javax.swing.JMenuItem();

percent = new javax.swing.JMenu();

Percentage = new javax.swing.JMenuItem();


jLabel1.setFont(new java.awt.Font("Candara", 1, 24)); // NOI18N

jLabel1.setText("  Select from Menu Bar");

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

setTitle("MainPage");
```

```

jPanel1.setLayout(null);

jLabel4.setFont(new java.awt.Font("MS UI Gothic", 1, 18)); // NOI18N
jLabel4.setText("CAMPUS DATABASE FOR PARKING MANAGMENT\n");
jPanel1.add(jLabel4);

jLabel4.setBounds(190, 80, 430, 60);

jLabel2.setIcon(new javax.swing.ImageIcon("C:\\Users\\Y.VISHNU
TEJA\\Downloads\\campus2_1.jpg")); // NOI18N

jPanel1.add(jLabel2);

jLabel2.setBounds(0, 0, 780, 400);

jMenu1.setText("Campus");

c_insert.setText("Insert");

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

jMenu1.add(c_insert);

C_update.setText("Update");

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

jMenu1.add(C_update);

```

```
c_delete.setText("Delete");

c_delete.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        c_deleteActionPerformed(evt);

    }

});

jMenu1.add(c_delete);

c_view.setText("View");

c_view.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        c_viewActionPerformed(evt);

    }

});

jMenu1.add(c_view);

jMenuBar1.add(jMenu1);

jMenu2.setText("Block");

Block_insert.setText("Insert");

Block_insert.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        Block_insertActionPerformed(evt);

    }

});

jMenu2.add(Block_insert);

Block_update.setText("Update");
```

```
Block_update.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        Block_updateActionPerformed(evt);  
    }  
});  
jMenu2.add(Block_update);  
Block_delete.setText("Delete");  
Block_delete.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        Block_deleteActionPerformed(evt);  
    }  
});  
jMenu2.add(Block_delete);  
Block_view.setText("View");  
Block_view.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        Block_viewActionPerformed(evt);  
    }  
});  
jMenu2.add(Block_view);  
jMenuBar1.add(jMenu2);  
jMenu4.setText("Slot");  
jMenu4.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
jMenu4ActionPerformed(evt);  
  
}  
  
});  
  
s_insert.setText("Insert");  
  
s_insert.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        s_insertActionPerformed(evt);  
    }  
});  
  
jMenu4.add(s_insert);  
  
slot_update.setText("update");  
  
slot_update.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        slot_updateActionPerformed(evt);  
    }  
});  
  
jMenu4.add(slot_update);  
  
s_View.setText("View");  
  
s_View.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        s_ViewActionPerformed(evt);  
    }  
});  
  
jMenu4.add(s_View);  
  
jMenuBar1.add(jMenu4);
```

```

percent.setText("Percentage");

Percentage.setText("Percentage");

Percentage.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        PercentageActionPerformed(evt);

    }

});

percent.add(Percentage);

jMenuBar1.add(percent);

setJMenuBar(jMenuBar1);

javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, 787,
Short.MAX_VALUE)

);

layout.setVerticalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(layout.createSequentialGroup()

            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, 417,
Short.MAX_VALUE)

);

```

```

        pack();

    } // </editor-fold> // GEN-END: initComponents

    private void c_insertActionPerformed(java.awt.event.ActionEvent evt)
    { // GEN-FIRST: event_c_insertActionPerformed

        // TODO add your handling code here:

        Campus_insert ci = new Campus_insert();

        ci.show();

        dispose();

    } // GEN-LAST: event_c_insertActionPerformed

    private void Block_updateActionPerformed(java.awt.event.ActionEvent evt)
    { // GEN-FIRST: event_Block_updateActionPerformed

        // TODO add your handling code here:

        Block_Update bu = new Block_Update();

        bu.show();

        dispose();

    } // GEN-LAST: event_Block_updateActionPerformed

    private void Block_insertActionPerformed(java.awt.event.ActionEvent evt)
    { // GEN-FIRST: event_Block_insertActionPerformed

        // TODO add your handling code here:

        Block_insert bi = new Block_insert();

        bi.show();

        dispose();

    } // GEN-LAST: event_Block_insertActionPerformed

    private void C_updateActionPerformed(java.awt.event.ActionEvent evt)
    { // GEN-FIRST: event_C_updateActionPerformed

        // TODO add your handling code here:

```

```

        Campus_Update cu=new Campus_Update();

        cu.show();

        dispose();

    }//GEN-LAST:event_C_updateActionPerformed

    private void c_deleteActionPerformed(java.awt.event.ActionEvent evt)
    { //GEN-FIRST:event_c_deleteActionPerformed

        // TODO add your handling code here:

        Campus_Delete cd=new Campus_Delete();

        cd.show();

        dispose();

    }//GEN-LAST:event_c_deleteActionPerformed

    private void c_viewActionPerformed(java.awt.event.ActionEvent evt)
    { //GEN-FIRST:event_c_viewActionPerformed

        // TODO add your handling code here:

        Campus_view cv=new Campus_view();

        cv.show();

        dispose();

    }//GEN-LAST:event_c_viewActionPerformed

    private void PercentageActionPerformed(java.awt.event.ActionEvent evt)
    { //GEN-FIRST:event_PercentageActionPerformed

        // TODO add your handling code here:

        Percentage p=new Percentage();

        p.show();

        dispose();

    }//GEN-LAST:event_PercentageActionPerformed

```



```
private void Block_viewActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_Block_viewActionPerformed
```

```
    // TODO add your handling code here:
```

```
    Block_View b_v=new Block_View();
```

```
    b_v.show();
```

```
    } //GEN-LAST:event_Block_viewActionPerformed
```

```
private void jMenuItem4ActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_jMenuItem4ActionPerformed
```

```
    // TODO add your handling code here
```

```
    } //GEN-LAST:event_jMenuItem4ActionPerformed
```

```
private void s_insertActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_s_insertActionPerformed
```

```
    // TODO add your handling code here:
```

```
    Slot_insert si=new Slot_insert();
```

```
    si.show();
```

```
    dispose();
```

```
    } //GEN-LAST:event_s_insertActionPerformed
```

```
private void slot_updateActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_slot_updateActionPerformed
```

```
    // TODO add your handling code here:
```

```
    Slot_update su=new Slot_update();
```

```
    su.show();
```

```
    dispose();
```

```
    } //GEN-LAST:event_slot_updateActionPerformed
```

```
private void s_ViewActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_s_ViewActionPerformed
```

```

// TODO add your handling code here:

Slot_view sv=new Slot_view();

sv.show();

dispose();

} //GEN-LAST:event_s_ViewActionPerformed

private void Block_deleteActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_Block_deleteActionPerformed

    // TODO add your handling code here:

    Block_Delete b_d=new Block_Delete();

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 ("com.formdev.flatlaf.FlatDarkLaf".equals(info.getName())) {

                javax.swing.UIManager.setLookAndFeel(info.getClassName());

                break;

            }

        }

    }
}

```

```
    } catch (ClassNotFoundException ex) {  
java.util.logging.Logger.getLogger(Campus.class.getName()).log(java.util.logging.Level  
.SEVERE, null, ex);
```

```
    } catch (InstantiationException ex) {  
java.util.logging.Logger.getLogger(Campus.class.getName()).log(java.util.logging.Level  
.SEVERE, null, ex);
```

```
    } catch (IllegalAccessException ex) {  
java.util.logging.Logger.getLogger(Campus.class.getName()).log(java.util.logging.Level  
.SEVERE, null, ex);
```

```
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
java.util.logging.Logger.getLogger(Campus.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 Campus().setVisible(true);
```

```
    }
```

```
});
```

```
}
```

```
// Variables declaration - do not modify//GEN-BEGIN:variables
```

```
private javax.swing.JMenuItem Block_delete;
```

```
private javax.swing.JMenuItem Block_insert;
```

```
private javax.swing.JMenuItem Block_update;
```

```
private javax.swing.JMenuItem Block_view;
```

```
private javax.swing.JMenuItem C_update;

private javax.swing.JMenuItem Percentage;

private javax.swing.JMenuItem c_delete;

private javax.swing.JMenuItem c_insert;

private javax.swing.JMenuItem c_view;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel4;

private javax.swing.JMenu jMenu1;

private javax.swing.JMenu jMenu2;

private javax.swing.JMenu jMenu4;

private javax.swing.JMenuBar jMenuBar1;

private javax.swing.JPanel jPanel1;

private javax.swing.JMenu percent;

private javax.swing.JMenuItem s_View;

private javax.swing.JMenuItem s_insert;

private javax.swing.JMenuItem slot_update;

// End of variables declaration//GEN-END:variables}

import java.sql.Connection;

import java.sql.Driver;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.Statement;
```

```
import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;

public class Campus_Update extends javax.swing.JFrame {

    public Campus_Update() {

        // <editor-fold defaultstate="collapsed" desc="Generated
Code">//GEN-BEGIN: initComponents

        private void initComponents() {

            jLabel2 = new javax.swing.JLabel();

            jLabel3 = new javax.swing.JLabel();

            JTF_collegeid = new javax.swing.JTextField();

            JTF_college_name = new javax.swing.JTextField();

            JTF_address = new javax.swing.JTextField();

            jButton1 = new javax.swing.JButton();

            jLabel1 = new javax.swing.JLabel();

            jLabel4 = new javax.swing.JLabel();

            jScrollPane1 = new javax.swing.JScrollPane();

            jTable1 = new javax.swing.JTable();

            JB_C_V = new javax.swing.JButton();

            jButton3 = new javax.swing.JButton();

            ComboBox1 = new javax.swing.JComboBox<>();

            jMenuBar1 = new javax.swing.JMenuBar();

            jMenu1 = new javax.swing.JMenu();

            jMenu2 = new javax.swing.JMenu();

            setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
```

```

setTitle("Update College Details");

jLabel2.setFont(new java.awt.Font("Segoe UI Black", 0, 14)); // NOI18N
jLabel2.setText("College Name :");

jLabel3.setFont(new java.awt.Font("Segoe UI Black", 0, 14)); // NOI18N
jLabel3.setText("Address      :");

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

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

jButton1.setText("Update");

jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jLabel1.setFont(new java.awt.Font("Segoe UI Black", 0, 14)); // NOI18N
jLabel1.setText("College Id      :");

jLabel4.setFont(new java.awt.Font("Segoe UI Black", 0, 14)); // NOI18N

```

```

jLabel4.setText("Update the College Details ");

jTable1.setModel(new javax.swing.table.DefaultTableModel(

    new Object [][] {

        }

    new String [] {

        "College Id", "CollegeName", "Address"

    }

)

    Class[] types = new Class [] {

        java.lang.Integer.class, java.lang.String.class, java.lang.String.class

    };

    public Class getColumnClass(int columnIndex) {

        return types [columnIndex];

    }

});

jScrollPane1.setViewportViewView(jTable1);

JB_C_V.setText("View");

JB_C_V.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        JB_C_VActionPerformed(evt);

    }

});

jButton3.setText("Back");

jButton3.addActionListener(new java.awt.event.ActionListener() {

```

```
public void actionPerformed(java.awt.event.ActionEvent evt) {  
  
    jButton3ActionPerformed(evt);  
  
}  
  
});  
  
//ComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new  
String[] { "1602 -VCE", "1600- OU", "4500-KITS", " " }));  
  
ComboBox1.addActionListener(new java.awt.event.ActionListener() {  
  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
  
        ComboBox1ActionPerformed(evt);  
  
    }  
  
});  
  
jMenu1.setText("File");  
  
jMenuBar1.add(jMenu1);  
  
jmenu2.setText("Edit");  
  
jMenuBar1.add(jMenu2);  
  
setJMenuBar(jMenuBar1);  
  
javax.swing.GroupLayout layout = new  
javax.swing.GroupLayout(getContentPane());  
  
getContentPane().setLayout(layout);  
  
layout.setHorizontalGroup(  
  
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
  
        .addGroup(layout.createSequentialGroup()  
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
  
            .addGroup(layout.createSequentialGroup()  
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
  
                .addGroup(layout.createSequentialGroup()  
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```



```

        .addGap(117, 117, 117)

        .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 120,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGroup(layout.createSequentialGroup())

        .addGap(42, 42, 42)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(layout.createSequentialGroup()

                .addComponent(jLabel3)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

                    .addComponent(JTF_address,
javax.swing.GroupLayout.PREFERRED_SIZE, 178,
javax.swing.GroupLayout.PREFERRED_SIZE))

                .addComponent(jLabel2)

                .addGroup(layout.createSequentialGroup()

                    .addComponent(jLabel1,
javax.swing.GroupLayout.PREFERRED_SIZE, 111,
javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addGap(29, 29, 29)

                    .addComponent(JTF_collegeid,
javax.swing.GroupLayout.PREFERRED_SIZE, 178,
javax.swing.GroupLayout.PREFERRED_SIZE))

                .addGroup(layout.createSequentialGroup()

                    .addGap(114, 114, 114)

                    .addComponent(JTF_college_name,
javax.swing.GroupLayout.PREFERRED_SIZE, 178,
javax.swing.GroupLayout.PREFERRED_SIZE))))))

```

```

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())

        .addContainerGap()

        .addComponent(ComboBox1,
javax.swing.GroupLayout.PREFERRED_SIZE, 178,
javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addGap(44, 44, 44)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 327,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

        .addComponent(JB_C_V)

        .addGap(142, 142, 142))))

.addGroup(layout.createSequentialGroup())

        .addGap(16, 16, 16)

        .addComponent(jButton3)

        .addGap(129, 129, 129)

        .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE,
212, javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addContainerGap(65, Short.MAX_VALUE))

);

layout.setVerticalGroup(

        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(layout.createSequentialGroup())

```

```
.addContainerGap()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 48,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addComponent(jButton3, javax.swing.GroupLayout.Alignment.TRAILING))
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGroup(layout.createSequentialGroup())

        .addGap(12, 12, 12)

        .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 215,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGroup(layout.createSequentialGroup())
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

    .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE))

    .addGroup(layout.createSequentialGroup())

        .addGap(27, 27, 27)

        .addComponent(JB_C_V,
javax.swing.GroupLayout.PREFERRED_SIZE, 35,
javax.swing.GroupLayout.PREFERRED_SIZE))))

    .addGroup(layout.createSequentialGroup())
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGroup(layout.createSequentialGroup())

        .addGap(7, 7, 7)

        .addComponent(jLabel1,
javax.swing.GroupLayout.PREFERRED_SIZE, 36,
javax.swing.GroupLayout.PREFERRED_SIZE))

    .addGroup(layout.createSequentialGroup())
```

```

        .addGap(18, 18, 18)

        .addComponent(JTF_collegeid,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addGap(18, 18, 18)

        .addComponent(ComboBox1,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(31, 31, 31)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
)

        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,
38, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(JTF_college_name,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
)

        .addComponent(JTF_address,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE,
41, javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addContainerGap(42, Short.MAX_VALUE)

);

pack();

} // </editor-fold> // GEN-END:initComponent;

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event_jButton1ActionPerformed

    // TODO add your handling code here:

    Connection con =null;

    PreparedStatement pst =n;

    try
    {

        Driver myDriver = new oracle.jdbc.driver.OracleDriver();

        DriverManager.registerDriver( myDriver );

        con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE",
"sreesha", "sreesha");

        Statement stmt = con.createStatement();

        String query="update campus set
college_name='"+JTF_college_name.getText()+"' where
college_id='"+JTF_collegeid.getText();

        int i = stmt.executeUpdate(query);

        JOptionPane.showMessageDialog(this, "Updated Succesfully !!!!");

        System .out.println("updated ....");

        stmt.close();

        con.close();

    }//GEN-LAST:event_jButton1ActionPerformed

private void JTF_college_nameActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event_JTF_college_nameActionPerformed

    // TODO add your handling code here:

    }//GEN-LAST:event_JTF_college_nameActionPerformed

```

```

    private void JTF_addressActionPerformed(java.awt.event.ActionEvent evt)
{
GEN-FIRST:event_JTF_addressActionPerformed

        // TODO add your handling code here:

}
GEN-LAST:event_JTF_addressActionPerformed

    private void JB_C_VActionPerformed(java.awt.event.ActionEvent evt)
{
GEN-FIRST:event_JB_C_VActionPerformed

        // TODO add your handling code here:

        Connection con =null;

        try

        {

            Driver myDriver = new oracle.jdbc.driver.OracleDriver();

            DriverManager.registerDriver( myDriver );

            con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE",
"sreesha", "sreesha");

            Statement stmt = con.createStatement();

            ResultSet Rs = stmt.executeQuery("select * from Campus");

            DefaultTableModel model = (DefaultTableModel)jTable1.getModel();

            while(Rs.next()){

                model.addRow(new Object[]{Rs.getInt("College_id"),
Rs.getString("College_Name"),Rs.getString("Address")});

            }

            System.out.println("Values retrived");

        }catch(Exception e){

            System.out.println(e);

        }

}
GEN-LAST:event_JB_C_VActionPerformed

```

```

    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt)
{
//GEN-FIRST:event_jButton3ActionPerformed

    // TODO add your handling code here:

    Campus c_B=new Campus();

    c_B.show();

    dispose()

}
//GEN-LAST:event_jButton3ActionPerformed

    private void ComboBox1ActionPerformed(java.awt.event.ActionEvent evt)
{
//GEN-FIRST:event_ComboBox1ActionPerformed

    // TODO add your handling code here:

    String selectedvalue =ComboBox1.getSelectedItem().toString();

    String[] array1= selectedvalue.split("-");

    JTF_collegeid.setText(array1);

}
//GEN-LAST:event_ComboBox1ActionPerformed

    public static void main(String args){

        java.awt.EventQueue.invokeLater(new Runnable() {

            public void run() {

                new Campus_Update().setVisible(true);

            }

        });

    }

    // Variables declaration - do not modify//GEN-BEGIN:variables

    private javax.swing.JComboBox<String> ComboBox1;

    private javax.swing.JButton JB_C_V;

    private javax.swing.JTextField JTF_address;

```

```
private javax.swing.JTextField JTF_college_name;

private javax.swing.JTextField JTF_collegeid;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton3;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel4;

private javax.swing.JMenu jMenu1;

private javax.swing.JMenu jMenu2;

private javax.swing.JMenuBar jMenuBar1;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JTable jTable1;

// End of variables declaration//GEN-END:variables

}
```

// PERCENTAGE.JAVA

```
import java.sql.Connection;

import java.sql.Driver;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.Statement;

import javax.swing.table.DefaultTableModel;

public class Percentage extends javax.swing.JFrame {
```



```

public Percentage() {

    initComponents();

    // <editor-fold defaultstate="collapsed" desc="Generated
Code">//GEN-BEGIN: initComponents

    private void initComponents() {

        jScrollPane1 = new javax.swing.JScrollPane();

        jTable_percent = new javax.swing.JTable();

        JB_viewPercent = new javax.swing.JButton();

        JB_Back = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        setTitle("Percent_Calculation");

        jTable_percent.setModel(new javax.swing.table.DefaultTableModel(

            new Object [][] {

                },

            new String [] {

                "Block_ID", "Percentage Utilised"

            }

        ) {

            boolean[] canEdit = new boolean [] {

                false, false

            };

            public boolean isCellEditable(int rowIndex, int columnIndex) {

                return canEdit [columnIndex];

            }

        }
    }
}

```

```

});

jScrollPane1.setViewportViewView(JTable_percent);

JB_viewPercent.setFont(new java.awt.Font("Segoe UI Black", 0, 14)); // NOI18N
JB_viewPercent.setText("View Percentage");

JB_viewPercent.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        JB_viewPercentActionPerformed(evt);

    }

});

JB_Back.setText("Back");

JB_Back.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        JB_BackActionPerformed(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()

            .addGap(26, 26, 26)

            .addComponent(JB_Back)

            .addGap(49, 49, 49)

```

```

        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
287, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(49, 161, Short.MAX_VALUE))

    .addGroup(layout.createSequentialGroup())

        .addGap(219, 219, 219)

        .addComponent(JB_viewPercent)

        .addGap(0, 0, Short.MAX_VALUE))

);

layout.setVerticalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(layout.createSequentialGroup())

            .addGap(21, 21, 21);
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(JB_Back, javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGroup(layout.createSequentialGroup())

            .addGap(17, 17, 17)

            .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 215,
javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addGap(18, 18, 18)

        .addComponent(JB_viewPercent,
javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED_SIZE))

);

pack();

} // </editor-fold> // GEN-END:initComponents

```

```

private void JB_viewPercentActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event_JB_viewPercentActionPerformed

    // TODO add your handling code here:

    Connection con =null;

    try
    {

        Driver myDriver = new oracle.jdbc.driver.OracleDriver();

        DriverManager.registerDriver( myDriver );

        con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE",
"sreesha", "sreesha");

        Statement stmt = con.createStatement();

        String sqlqry;

        //String selectedvalue1 =percentCombobox.getSelectedItemAt().toString();

        sqlqry= "select
block_id,sum(two_wheeler+four_wheeler)/sum(TOTAL_CAPACITY)*100 from slot
group by block_id";

        ResultSet Rs = stmt.executeQuery(sqlqry);

        DefaultTableModel model = (DefaultTableModel)JTable_percent.getModel();

        while(Rs.next())

        {

            model.addRow(new Object[]{Rs.getString("Block_id"),
Rs.getFloat("sum(two_wheeler+four_wheeler)/sum(TOTAL_CAPACITY)*100")});

            System.out.println("Values retrived");

        }

        con.close();

    }catch(Exception e){

        System.out.println(e);
    }
}

```

```

    }

    }//GEN-LAST:event_JB_viewPercentActionPerformed

    private void JB_BackActionPerformed(java.awt.event.ActionEvent evt)
    { //GEN-FIRST:event_JB_BackActionPerformed

        // TODO add your handling code here:

        Campus cb=new Campus();

        cb.show();

        dispose();

    }//GEN-LAST:event_JB_BackActionPerformed

    public static void main(String args[]) {

        java.awt.EventQueue.invokeLater(new Runnable() {

            public void run() {

                new Percentage().setVisible(true);

            }

        });

    }

    // Variables declaration - do not modify//GEN-BEGIN:variables
    private javax.swing.JButton JB_Back;

    private javax.swing.JButton JB_viewPercent;

    private javax.swing.JTable JTable_percent;

    private javax.swing.JScrollPane jScrollPane1;

    // End of variables declaration//GEN-END:variables
}

```

GITHUB LINK AND FOLDER STRUCTURE:

The screenshot shows a GitHub repository named 'CAMPUS-DATABASE' by user 'ysreesha2004'. The repository is public and has 1 branch (main) and 0 tags. It contains 2 commits. The file list shows various Java files for database operations (Block, Campus, Slot) and a README.md file. The right sidebar shows the repository's activity, including 0 stars, 1 watching, and 0 forks. The 'About' section is empty.

File Name	Commit Message	Commit Time
Block.java	Add files via upload	10 minutes ago
Block_Delete.java	Add files via upload	10 minutes ago
Block_Update.java	Add files via upload	10 minutes ago
Block_View.java	Add files via upload	10 minutes ago
Block_insert.java	Add files via upload	10 minutes ago
Campus.java	Add files via upload	10 minutes ago
Campus_Delete.java	Add files via upload	10 minutes ago
Campus_Update.java	Add files via upload	10 minutes ago
Campus_insert.java	Add files via upload	10 minutes ago
Campus_view.java	Add files via upload	10 minutes ago
Percentage.java	Add files via upload	10 minutes ago
README.md	Initial commit	12 minutes ago
Slot_insert.java	Add files via upload	10 minutes ago
Slot_update.java	Add files via upload	10 minutes ago
Slot_view.java	Add files via upload	10 minutes ago

Github link: <https://github.com/ysreesha2004/CAMPUS-DATABASE>

TESTING:

The screenshot shows a Java Swing window titled 'Insert Campus Details'. It has a menu bar with 'Campus', 'Block', 'Parking_lot', and 'Slot'. The window contains a 'Back' button, a label 'Insert the College Details', and three input fields for 'College Id', 'College Name', and 'Address'. To the right of these fields is a table with three columns: 'College Name', 'Address', and 'College Id'. At the bottom of the window are two buttons: 'INSERT' and 'View'.

College Name	Address	College Id
--------------	---------	------------

Insert Campus Details

Campus

Block

Parking_lot

Slot

Back

Insert the College Details

College Id

:

500

College Name

:

CBIT

Address

:

HYD

Message

×

i

Inserted Suucesfully !!!

OK

College Id

INSERT

View

Insert Campus Details

Campus

Block

Parking_lot

Slot

Back

Insert the College Details

College Id

:

500

College Name

:

CBIT

Address

:

HYD

College Name	Address	College Id
1602	vce	hyderabad
500	CBIT	HYD
4500	kits	WGL
1600	OU	HYD
100	vce	hyd

INSERT

View

Update College Details

File

Edit

Back

Update the College Details

College Id

:

College Name

:

1602 -VCE

1602 -VCE

1600- OU

4500-KITS

Address

:

Update

College Id	CollegeName	Address
------------	-------------	---------

View

Update College Details

File

Edit

Back

Update the College Details

College Id

:

College Name

:

1602 -VCE

Address

:

Update

College Id	CollegeName	Address
1602	Vasavi	hyderabad
500	CBIT	HYD
4500	kits	WGL
1600	OU	HYD
100	vce	hyd

View

Campus deletion

Back

Enter the Details to Delete

College Id :

College Name :

Address :

Delete

Message

Deleted Succesfully

OK

Block Insertion

Campus **Block** **Parking Slot** **Slot**

BACK

Enter the details to Insert

Block Id :

Block Name :

College_id :

Insert **View**

Block ID	Block Name	College_ID

Message

Inserted Succesfully !!!!

OK

Block Updation

File

Edit

Back

Update the Block Details

Block ID

:

V

Block Name

:

V

V

R

JC

Lib

C

College ID

:

Update

View

Block ID	Block Name	College ID
----------	------------	------------

Block Updation

File

Edit

Back

Update the Block Details

Block ID

:

V

Block Name

:

Visveshaya

College ID

:

1602

Update

View

Block ID	Block Name	College ID
----------	------------	------------

Message

Updated Succesfully

OK

Block_ID	Percentage Utilised
V	37.5
R	40.0
Lib	50.0
C	33.333332
JC	50.0

Results: I had successfully completed a PROJECT on “CAMPUS DATABASE FOR PARKING MANAGEMENT”.

Discussion and future Work:

This application provides the students /faculty to know about the information of parking capacity in the campus per block. In this application, it stores the information about the campus details, block details and parking lot details.

I also wanted this application to provide the interface for students/faculty to be able to book their slot in the parking lot and be able to view no of slots left over for parking.

References:

<https://docs.oracle.com/en/database/oracle/oracle-database/19/sqlrf/#Oracle%C2%AE-Database>

<https://docs.oracle.com/javase%2F7%2Fdocs%2Fapi%2F%2F/javafx/swing/package-summary.html>

<https://devdocs.io/openjdk~8/>