

DBMS Assignment-01

Title : Police Station Database

JAVA SWING BASED- POLICE STATION DATABASE- SQL CONNECTIVITY USING JDBC

A

Report

Submitted in partial fulfillment of the

Requirements for the award of the

Degree of

BACHELOR OF ENGINEERING

IN

INFORMATION TECHNOLOGY

By

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<1602-19-737-094>

Under the guidance of Ms B.

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Department of Information
Technology Vasavi College of
Engineering (Autonomous)(Affiliated

ROLL NO: 1602-19-737-094

NAME : B.Sai Kumar Reddy

DBMS Assignment-01

Title : Police Station Database

to Osmania University) Ibrahimbagh,

Hyderabad-31

ROLL NO: 1602-19-737-094

NAME : B.Sai Kumar Reddy

BONAFIDE CERTIFICATE

This is to certify that this project report titled '**Police Station Database**' is a project work of Mrs. Barda Sai Kumar Reddy bearing roll no. 1602-19-737-094 who carried out the project under my supervision in the IV semester for the academic year 2020- 2021.

Signature

Internal Examiner

Signature

External Examiner

ABSTRACT:-

Police Station Database is platform which enables the police officers to store the important records of criminal activities. This Software stores all the information from Thieves to court which includes all the details of police officers ,thieves ,FIR ,jails and lot more.

So that a police officer can easily track the records of criminals within seconds and it is user friendly to insert all the records And it also establish many relations among the tables with relevant and meaning full information

REQUIREMENT ANALYSIS:

List Of Tables:

- UserDetails
- Officer
- FIR
- Thieves
- Jail
- Handle

List of attributes with their domain types :-

UserDetails:

1. UserId number
2. UserName varchar2(20)
3. PassWord varchar2(20)
4. OfficerId integer

Officer:

1. OfficerId number
2. Name varchar2(20)
3. phoneno number
4. UserId number

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FIR:

1. FirlId number
2. NameOfInformer varchar2(10)
3. NameOfCriminal varchar2(10)
4. DescriptionOfOffence varchar2(100)

Thieves:

1. ThievesId number
2. Name varchar2(10)
3. Reason varchar2(50)
4. JailId number not null

Jail:

1. JailId number
2. jailname varchar2(10)
3. ThievesId number not null

Handle:

1. OfficerId
2. FIRID
3. BookedDate

ARCHITECTURE AND TECHNOLOGY

Software used:

Java Eclipse, Oracle 11g Database, Java SE version 08, SQL*Plus.

Java AWT:

Javax SWING is an API to develop GUI or window-based applications in java. Javax Swing components are platform-independent i.e. components are displayed irrespective to the view of operating system. SWING is lightweight i.e. its components are independent of the resources of OS.

The javax.swing package provides classes for SWING API such as JTextField, JLabel, JTextArea, JMenu, Choice, List, JMenuBar etc.

SQL:

Structure Query Language(SQL) is a database query language used for storing and managing data in Relational DBMS. SQL was the first commercial language introduced for E.F Codd's **Relational** model of database. Today almost all RDBMS (MySQL, Oracle, Infomix, Sybase, MS Access) use **SQL** as the standard database query language. SQL is used to perform all types of data operations in RDBMS

Java-SQL Connectivity using JDBC:

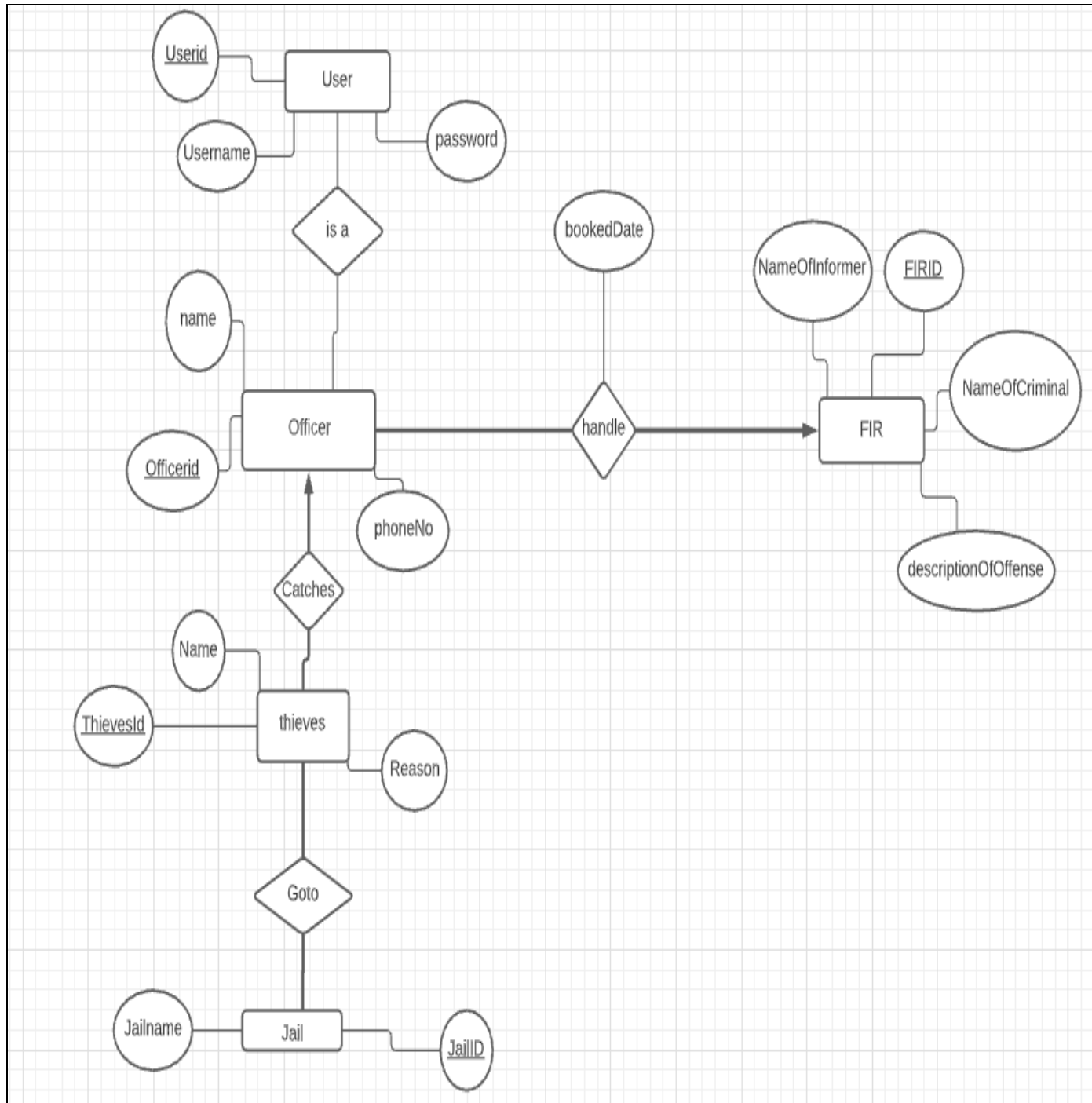
Java Database Connectivity (JDBC) is an application programming interface (API) for the programming language Java, which defines how a client may access a database. It is a Java-based data access technology used for Java database connectivity. It is part of the Java Standard Edition platform, from Oracle 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:

```
try { Class.forName("oracle.jdbc.driver.OracleDriver"); }
catch (Exception e)
{ System.err.println("Unable to find and load driver"); System.exit(1); }
public void connectToDB()
{
    try {
        connection =
        DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","s
aikumar","sql");
        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

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ER DIAGRAM:



MAPPING CARDINALITY AND PARTICIATION CONSTRAINTS

Many Officers can handle any of the FIR but One Fir can be handled by only one officer which is many to one relationship

Many thieves can go to jail and a jail can have many thieves which is many to many relationship

One officer can catch many thieves i.e one to many relationship

DDL COMMANDS

1. create table UserDetails(UserId number(3) not null primary key,UserName varchar2(20),PassWord varchar2(20) ,OfficerId integer null);
2. create table Officer(OfficerId number not null primary key,Name varchar2(20,phoneno number ,UserId number null);

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3. alter table UserDetails add constraint fk_user foreign key(OfficerId) references Officer;
4. alter table Officer add constraint fk_Officer foreign key(UserId) references UserDetails;
5. create table FIR (FirId number not null primary key,NameOfInformer varchar2(10) ,NameOfCriminal varchar2(10), DescriptionOfOffence varchar2(100));
6. create table Thieves(ThievesId number not null primary key,Name varchar2(10), Reason varchar2(50),JailId number null);
7. create table jail(JailId number not null primary key,jailname varchar2(10),ThievesId number not null);
8. alter table jail add constraint fk_jail foreign key(ThievesId) references Thieves;
9. alter table Thieves add constraint fk_Thieves1 foreign key(JailId) references jail;
10. create table Handle(OfficerId number not null,FIRID number not null,BookedDate date,foreign key(OfficerId) references Officer(OfficerId),foreign key(FIRID) references FIR(FirId));

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DML COMMANDS

1. insert into UserDetails values(
 &UserId,'&UserName','&PassWord',&OfficerId);
2. insert into Officer values
 (&OfficerId,'&Name',&phoneno,&UserId);
3. insert into FIR values(&FirId,'&NameOfInformer
 ','&NameOfCriminal','&DescriptionOfOffence');
4. insert into Thieves values(&ThievesId,'&Name'
 ','&Reason',&JailId);
5. insert into jail values (&JailId,'&jailname',&ThievesId);
6. insert into Handle values(&OfficerId,&FIRID,'&BookedDate');

Outputs:

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Run SQL Command Line

```
SQL> insert into UserDetails values( &UserId,'&UserName','&PassWord',&OfficerId);
Enter value for userid: 10
Enter value for username: lokesh
Enter value for password: abc@123
Enter value for officerid: NULL
old 1: insert into UserDetails values( &UserId,'&UserName','&PassWord',&OfficerId)
new 1: insert into UserDetails values( 10,'lokesh','abc@123',NULL)

1 row created.

SQL> /
Enter value for userid: 11
Enter value for username: sai
Enter value for password: 123@abc
Enter value for officerid: NULL
old 1: insert into UserDetails values( &UserId,'&UserName','&PassWord',&OfficerId)
new 1: insert into UserDetails values( 11,'sai','123@abc',NULL)

1 row created.

SQL> /
Enter value for userid: 12
Enter value for username: prasad
Enter value for password: 95@vce
Enter value for officerid: NULL
old 1: insert into UserDetails values( &UserId,'&UserName','&PassWord',&OfficerId)
new 1: insert into UserDetails values( 12,'prasad','95@vce',NULL)

1 row created.

SQL> /
Enter value for userid: 13
Enter value for username: bharath
Enter value for password: b@123
Enter value for officerid: NULL
old 1: insert into UserDetails values( &UserId,'&UserName','&PassWord',&OfficerId)
new 1: insert into UserDetails values( 13,'bharath','b@123',NULL)

1 row created.
```

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 Run SQL Command Line

```
SQL> /
Enter value for userid: 14
Enter value for username: shiva
Enter value for password: 103@vce
Enter value for officerid: NULL
old 1: insert into UserDetails values( &UserId, '&UserName', '&PassWord', &OfficerId);
new 1: insert into UserDetails values( 14, 'shiva', '103@vce', NULL)

1 row created.

SQL> insert into Officer values (&OfficerId, '&Name', &phoneno, &UserId);
Enter value for officerid: 501
Enter value for name: santhosh
Enter value for phoneno: 65454565
Enter value for userid: 10
old 1: insert into Officer values (&OfficerId, '&Name', &phoneno, &UserId)
new 1: insert into Officer values (501, 'santhosh', 65454565, 10)

1 row created.

SQL> /
Enter value for officerid: 502
Enter value for name: nithya
Enter value for phoneno: 651651
Enter value for userid: 11
old 1: insert into Officer values (&OfficerId, '&Name', &phoneno, &UserId)
new 1: insert into Officer values (502, 'nithya', 651651, 11)

1 row created.

SQL> /
Enter value for officerid: 503
Enter value for name: suresh
Enter value for phoneno: 54
Enter value for userid: 12
old 1: insert into Officer values (&OfficerId, '&Name', &phoneno, &UserId)
new 1: insert into Officer values (503, 'suresh', 54, 12)

1 row created.
```



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 Run SQL Command Line

```
SQL> /
Enter value for officerid: 504
Enter value for name: ramu
Enter value for phoneno: 656565
Enter value for userid: 13
old 1: insert into Officer values (&OfficerId,&Name,&phoneno,&UserId)
new 1: insert into Officer values (504,'ramu',656565,13)

1 row created.

SQL> /
Enter value for officerid: 505
Enter value for name: naveen
Enter value for phoneno: 6565654
Enter value for userid: 14
old 1: insert into Officer values (&OfficerId,&Name,&phoneno,&UserId)
new 1: insert into Officer values (505,'naveen',6565654,14)

1 row created.

SQL> update UserDetails set OfficerId=501 where UserId=10;

1 row updated.

SQL> update UserDetails set OfficerId=502 where UserId=11;

1 row updated.

SQL> update UserDetails set OfficerId=503 where UserId=12;

1 row updated.

SQL> update UserDetails set OfficerId=504 where UserId=13;

1 row updated.

SQL> update UserDetails set OfficerId=505 where UserId=14;

1 row updated.
```



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Run SQL Command Line

1 row updated.

SQL> update UserDetails set OfficerId=502 where UserId=11;

1 row updated.

SQL> update UserDetails set OfficerId=503 where UserId=12;

1 row updated.

SQL> update UserDetails set OfficerId=504 where UserId=13;

1 row updated.

SQL> update UserDetails set OfficerId=505 where UserId=14;

1 row updated.

SQL> select * from UserDetails;

USERID	USERNAME	PASSWORD	OFFICERID
10	lokesh	abc@123	501
11	sai	123@abc	502
12	prasad	95@vce	503
13	bharath	b@123	504
14	shiva	103@vce	505

SQL> select * from Officer;

OFFICERID	NAME	PHONENO	USERID
501	santhosh	65454565	10
502	nithya	651651	11
503	suresh	54	12
504	ramu	656565	13
505	naveen	6565654	14

SQL>




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 Run SQL Command Line

```
SQL> insert into FIR values( &FIRId,'&NameOfInformer','&NameOfCriminal','&De
Enter value for firid: 255
Enter value for nameofinformer: manoj
Enter value for nameofcriminal: shiva
Enter value for descriptionoffence: chain theft
old 1: insert into FIR values( &FIRId,'&NameOfInformer','&NameOfCriminal',
new 1: insert into FIR values( 255,'manoj','shiva','chain theft')
```

1 row created.

```
SQL> /
```

```
Enter value for firid: 266
Enter value for nameofinformer: gopal
Enter value for nameofcriminal: ramu
Enter value for descriptionoffence: murder
old 1: insert into FIR values( &FIRId,'&NameOfInformer','&NameOfCriminal',
new 1: insert into FIR values( 266,'gopal','ramu','murder')
```

1 row created.

```
SQL> /
```

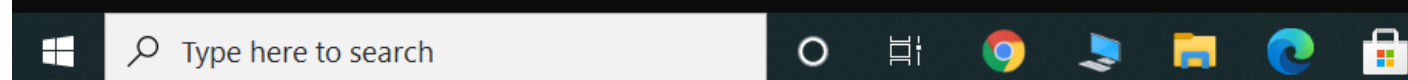
```
Enter value for firid: 267
Enter value for nameofinformer: hari
Enter value for nameofcriminal: ramesh
Enter value for descriptionoffence: bike theft
old 1: insert into FIR values( &FIRId,'&NameOfInformer','&NameOfCriminal',
new 1: insert into FIR values( 267,'hari','ramesh','bike theft')
```

1 row created.

```
SQL> /
```

```
Enter value for firid: 268
Enter value for nameofinformer: suresh
Enter value for nameofcriminal: laxmi
Enter value for descriptionoffence: gold theft
old 1: insert into FIR values( &FIRId,'&NameOfInformer','&NameOfCriminal',
new 1: insert into FIR values( 268,'suresh','laxmi','gold theft')
```

1 row created.



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Run SQL Command Line

```
SQL> /
Enter value for firid: 269
Enter value for nameofinformer: harshith
Enter value for nameofcriminal: harsha
Enter value for descriptionoffence: murder
old 1: insert into FIR values( &FirId, '&NameOfInformer', '&NameOfCriminal', '&DescriptionOffence' )
new 1: insert into FIR values( 269, 'harshith', 'harsha', 'murder' )

1 row created.

SQL> select * from FIR;

      FIRID NAMEOFINFO NAMEOFCRIM
-----
DESCRIPTIONOFFENCE
-----
      255 manoj      shiva
chain theft

      266 gopal      ramu
murder

      267 hari      ramesh
bike theft

      FIRID NAMEOFINFO NAMEOFCRIM
-----
DESCRIPTIONOFFENCE
-----
      268 suresh      laxmi
gold theft

      269 harshith    harsha
murder

SQL> _
```

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Run SQL Command Line

```
SQL> insert into Thieves values( &ThievesId,'&Name','&Reason',&JailId);
Enter value for thievesid: 1010
Enter value for name: shiva
Enter value for reason: chain theft
Enter value for jailid: NULL
old 1: insert into Thieves values( &ThievesId,'&Name','&Reason',&JailId)
new 1: insert into Thieves values( 1010,'shiva','chain theft',NULL)

1 row created.
```

```
SQL> /
Enter value for thievesid: 1011
Enter value for name: ramu
Enter value for reason: murder
Enter value for jailid: NULL\
old 1: insert into Thieves values( &ThievesId,'&Name','&Reason',&JailId)
new 1: insert into Thieves values( 1011,'ramu','murder',NULL\)
```

insert into Thieves values(1011,'ramu','murder',NULL\)

*

ERROR at line 1:
ORA-00911: invalid character

```
SQL> /
Enter value for thievesid: 1011
Enter value for name: ramu
Enter value for reason: murder
Enter value for jailid: NULL
old 1: insert into Thieves values( &ThievesId,'&Name','&Reason',&JailId)
new 1: insert into Thieves values( 1011,'ramu','murder',NULL)

1 row created.
```

```
SQL> /
Enter value for thievesid: 1012
Enter value for name: ramesh
Enter value for reason: bike theft
Enter value for jailid: NULL
old 1: insert into Thieves values( &ThievesId,'&Name','&Reason',&JailId)
new 1: insert into Thieves values( 1012,'ramesh','bike theft',NULL)
```



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 Run SQL Command Line

```
1 row created.

SQL> /
Enter value for thievesid: 1012
Enter value for name: ramesh
Enter value for reason: bike theft
Enter value for jailid: NULL
old 1: insert into Thieves values( &ThievesId,&Name','&Reason',&JailId)
new 1: insert into Thieves values( 1012,'ramesh','bike theft',NULL)

1 row created.

SQL> /
Enter value for thievesid: 1013
Enter value for name: laxmi
Enter value for reason: gold theft
Enter value for jailid: NULL
old 1: insert into Thieves values( &ThievesId,&Name','&Reason',&JailId)
new 1: insert into Thieves values( 1013,'laxmi','gold theft',NULL)

1 row created.

SQL> /
Enter value for thievesid: 1014
Enter value for name: harsha
Enter value for reason: murder
Enter value for jailid: NULL
old 1: insert into Thieves values( &ThievesId,&Name','&Reason',&JailId)
new 1: insert into Thieves values( 1014,'harsha','murder',NULL)

1 row created.

SQL> insert into jail values (&JailId,'&jailname',&ThievesId);
Enter value for jailid: 301
Enter value for jailname: subjail
Enter value for thievesid: 1010
old 1: insert into jail values (&JailId,'&jailname',&ThievesId)
new 1: insert into jail values (301,'subjail',1010)
```

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 Run SQL Command Line

```
SQL> insert into jail values (&JailId,&jailname",&ThievesId);
Enter value for jailid: 301
Enter value for jailname: subjail
Enter value for thievesid: 1010
old 1: insert into jail values (&JailId,&jailname",&ThievesId)
new 1: insert into jail values (301,'subjail',1010)

1 row created.

SQL> /
Enter value for jailid: 302
Enter value for jailname: mainjail
Enter value for thievesid: 1011
old 1: insert into jail values (&JailId,&jailname",&ThievesId)
new 1: insert into jail values (302,'mainjail',1011)

1 row created.

SQL> /
Enter value for jailid: 303
Enter value for jailname: subjail
Enter value for thievesid: 1012
old 1: insert into jail values (&JailId,&jailname",&ThievesId)
new 1: insert into jail values (303,'subjail',1012)

1 row created.

SQL> /
Enter value for jailid: 304
Enter value for jailname: subjail
Enter value for thievesid: 1013
old 1: insert into jail values (&JailId,&jailname",&ThievesId)
new 1: insert into jail values (304,'subjail',1013)

1 row created.

SQL> /
Enter value for jailid: 305
Enter value for jailname: mainjail
Enter value for thievesid: 1014
```

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Run SQL Command Line

```
SQL> update Thieves set jailId=301 where ThievesId=1010;
```

```
1 row updated.
```

```
SQL> update Thieves set jailId=302 where ThievesId=1011;
```

```
1 row updated.
```

```
SQL> update Thieves set jailId=303 where ThievesId=1012;
```

```
1 row updated.
```

```
SQL> update Thieves set jailId=304 where ThievesId=1013;
```

```
1 row updated.
```

```
SQL> update Thieves set jailId=305 where ThievesId=1014;
```

```
1 row updated.
```

```
SQL> select * from Thieves;
```

THIEVESID	NAME	REASON

JAILID		

1010 301	shiva	chain theft
1011 302	ramu	murder
1012 303	ramesh	bike theft

THIEVESID	NAME	REASON

JAILID		



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```
THIEVESID NAME REASON
-----
JAILID
-----
1010 shiva chain theft
301
1011 ramu murder
302
1012 ramesh bike theft
303

THIEVESID NAME REASON
-----
JAILID
-----
1013 laxmi gold theft
304
1014 harsha murder
305

SQL> select * from jail;

JAILID JAILNAME THIEVESID
-----
301 subjail 1010
302 mainjail 1011
303 subjail 1012
304 subjail 1013
305 mainjail 1014

SQL> _
```



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Run SQL Command Line

```
SQL> insert into Handle values(&OfficerId,&FIRID,'&BookedDate');
Enter value for officerid: 502
Enter value for firid: 266
Enter value for bookeddate: 22-JUN-2019
old 1: insert into Handle values(&OfficerId,&FIRID,'&BookedDate')
new 1: insert into Handle values(502,266,'22-JUN-2019')

1 row created.
```

```
SQL> /
Enter value for officerid: 503
Enter value for firid: 267
Enter value for bookeddate: 17-MAR-2020
old 1: insert into Handle values(&OfficerId,&FIRID,'&BookedDate')
new 1: insert into Handle values(503,267,'17-MAR-2020')

1 row created.
```

```
SQL> /
Enter value for officerid: 504
Enter value for firid: 268
Enter value for bookeddate: 9-JAN-2021
old 1: insert into Handle values(&OfficerId,&FIRID,'&BookedDate')
new 1: insert into Handle values(504,268,'9-JAN-2021')

1 row created.
```

```
SQL> /
Enter value for officerid: 505
Enter value for firid: 269
Enter value for bookeddate: 17-MAR-2020
old 1: insert into Handle values(&OfficerId,&FIRID,'&BookedDate')
new 1: insert into Handle values(505,269,'17-MAR-2020')

1 row created.
```

```
SQL> select * from handle;
```

OFFICERID	FIRID	BOOKEDDAT
-----------	-------	-----------



Type here to search



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Implementation:

Program:

User Interface:

```
import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.JTabbedPane;
import javax.swing.JPanel;
import javax.swing.JButton;
import javax.swing.JTextField;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import java.awt.Font;
import java.awt.Image;

import javax.swing.JEditorPane;
import javax.swing.JLabel;
import javax.swing.ImageIcon;
import java.awt.Color;
import javax.swing.JTextPane;
import javax.swing.JTextArea;

public class main_frame {

    private JFrame frame;

    public main_frame() {
```

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```
        initialize();

        this.frame.setVisible(true);

    }

    /**
     * Initialize the contents of the frame.
     */
    private void initialize() {

        frame = new JFrame();

        frame.setTitle("POLICE STATION DATABASE");

        frame.setBounds(100, 100, 675, 502);

        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        frame.getContentPane().setLayout(null);

        JTabbedPane tabbedPane = new JTabbedPane(JTabbedPane.TOP);

        tabbedPane.setBounds(10, 39, 641, 416);

        frame.getContentPane().add(tabbedPane);

        JPanel panel = new JPanel();

        tabbedPane.addTab("Officer  ", null, panel, null);

        JButton btnNewButton = new JButton("ADD OFFICER");

        btnNewButton.setBounds(55, 69, 133, 39);

        btnNewButton.setFont(new Font("Tahoma", Font.BOLD, 13));

        btnNewButton.addActionListener(new ActionListener() {

            public void actionPerformed(ActionEvent e) {

                if (e.getSource() == btnNewButton) {

                    ADDOFFICER addoff=new ADDOFFICER();

                }

            }

        })
    }
```

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```
});  
  
panel.setLayout(null);  
  
panel.add(btnNewButton);  
  
  
JButton btnNewButton_1 = new JButton("EDIT OFFICER");  
btnNewButton_1.setBounds(55, 154, 133, 39);  
btnNewButton_1.setFont(new Font("Tahoma", Font.BOLD, 13));  
btnNewButton_1.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent e) {  
        if (e.getSource() == btnNewButton_1) {  
            EDITOFFICER editoff=new EDITOFFICER();  
  
        }  
    }  
});  
  
panel.add(btnNewButton_1);  
  
  
JButton btnNewButton_2 = new JButton("DELETE OFFICER");  
btnNewButton_2.setBounds(55, 238, 151, 39);  
btnNewButton_2.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent e) {  
        if (e.getSource() == btnNewButton_2) {  
            DELETEOFFICER deloff=new DELETEOFFICER();  
  
        }  
    }  
});  
  
btnNewButton_2.setFont(new Font("Tahoma", Font.BOLD, 13));  
panel.add(btnNewButton_2);
```

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```
        JButton btnNewButton_3 = new JButton("VIEW OFFICERS");

        btnNewButton_3.setBounds(55, 321, 151, 39);

        btnNewButton_3.addActionListener(new ActionListener() {

            public void actionPerformed(ActionEvent e) {

                if (e.getSource() == btnNewButton_3) {

                    VIEWOFFICER viewoff=new VIEWOFFICER();

                }

            }

        });

        btnNewButton_3.setFont(new Font("Tahoma", Font.BOLD, 13));

        panel.add(btnNewButton_3);


        JLabel lblNewLabel = new JLabel("");

        lblNewLabel.setBounds(296, 69, 271, 267);

        Image image=new
        ImageIcon(this.getClass().getResource("police.jpg")).getImage();

        lblNewLabel.setIcon(new ImageIcon(image));

        panel.add(lblNewLabel);


        JPanel panel_1 = new JPanel();

        tabbedPane.addTab("FIR ", null, panel_1, null);

        panel_1.setLayout(null);


        JButton btnNewButton_4 = new JButton("ADD FIR");

        btnNewButton_4.addActionListener(new ActionListener() {

            public void actionPerformed(ActionEvent e) {

                if (e.getSource() == btnNewButton_4) {

                    ADDFIR addfir=new ADDFIR();

                }

            }

        });
```

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```
        }

    });

    btnNewButton_4.setFont(new Font("Tahoma", Font.BOLD, 15));
    btnNewButton_4.setBounds(74, 53, 130, 27);
    panel_1.add(btnNewButton_4);


    JButton btnNewButton_5 = new JButton("EDIT FIR");
    btnNewButton_5.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            if (e.getSource() == btnNewButton_5) {
                EDITFIR editfir=new EDITFIR();
            }
        }
    });

    btnNewButton_5.setFont(new Font("Tahoma", Font.BOLD, 15));
    btnNewButton_5.setBounds(74, 119, 130, 27);
    panel_1.add(btnNewButton_5);


    JButton btnNewButton_6 = new JButton("DELETE FIR");
    btnNewButton_6.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            if (e.getSource() == btnNewButton_6) {
                DELETEDFIR delfir=new DELETEDFIR();
            }
        }
    });

    btnNewButton_6.setFont(new Font("Tahoma", Font.BOLD, 15));
    btnNewButton_6.setBounds(74, 197, 130, 27);
    panel_1.add(btnNewButton_6);
```

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```
        JButton btnNewButton_7 = new JButton("VIEW FIR");
        btnNewButton_7.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                if (e.getSource() == btnNewButton_7) {
                    VIEWFIR viewfir=new VIEWFIR();
                }
            }
        });
        btnNewButton_7.setFont(new Font("Tahoma", Font.BOLD, 15));
        btnNewButton_7.setBounds(74, 273, 130, 27);
        panel_1.add(btnNewButton_7);

        JLabel lblNewLabel_1 = new JLabel("");
        Image image1=new ImageIcon(this.getClass().getResource("FIR.jpg")).getImage();
        lblNewLabel_1.setIcon(new ImageIcon(image1));
        lblNewLabel_1.setBounds(270, 53, 314, 247);
        panel_1.add(lblNewLabel_1);

        JPanel panel_2 = new JPanel();
        tabbedPane.addTab("Thieves", null, panel_2, null);
        panel_2.setLayout(null);

        JButton btnNewButton_8 = new JButton("ADD THIEVES");
        btnNewButton_8.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                if (e.getSource() == btnNewButton_8) {
                    ADDTHIEVES addthi=new ADDTHIEVES();
                }
            }
        })
    }
```

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```
});  
  
btnNewButton_8.setFont(new Font("Tahoma", Font.BOLD, 15));  
  
btnNewButton_8.setBounds(88, 40, 146, 35);  
  
panel_2.add(btnNewButton_8);  
  
  
JButton btnNewButton_9 = new JButton("EDIT THIEVES");  
btnNewButton_9.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent e) {  
        if (e.getSource() == btnNewButton_9) {  
            EDITTHIEVES EDITthi=new EDITTHIEVES();  
        }  
    }  
});  
  
btnNewButton_9.setFont(new Font("Tahoma", Font.BOLD, 14));  
  
btnNewButton_9.setBounds(88, 129, 146, 35);  
  
panel_2.add(btnNewButton_9);  
  
  
JButton btnNewButton_10 = new JButton("DELETE THIEVES");  
btnNewButton_10.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent e) {  
        if (e.getSource() == btnNewButton_10) {  
            DELETETHIEVES delthi=new DELETETHIEVES();  
        }  
    }  
});  
  
btnNewButton_10.setFont(new Font("Tahoma", Font.BOLD, 14));  
  
btnNewButton_10.setBounds(88, 229, 176, 35);  
  
panel_2.add(btnNewButton_10);
```

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```
        JButton btnNewButton_11 = new JButton("VIEW THIEVES");

        btnNewButton_11.addActionListener(new ActionListener() {

            public void actionPerformed(ActionEvent e) {

                if (e.getSource() == btnNewButton_11) {

                    VIEWTHIEVES veiwthi=new VIEWTHIEVES();

                }

            }

        });

        btnNewButton_11.setFont(new Font("Tahoma", Font.BOLD, 14));

        btnNewButton_11.setBounds(88, 319, 155, 35);

        panel_2.add(btnNewButton_11);


        JLabel lblNewLabel_2 = new JLabel("");

        Image image2=new
        ImageIcon(this.getClass().getResource("theive.jpg")).getImage();

        lblNewLabel_2.setIcon(new ImageIcon(image2));

        lblNewLabel_2.setBounds(288, 56, 275, 277);

        panel_2.add(lblNewLabel_2);


        JPanel panel_3 = new JPanel();

        tabbedPane.addTab(" Jail ", null, panel_3, null);

        panel_3.setLayout(null);


        JButton btnNewButton_12 = new JButton("ADD JAIL");

        btnNewButton_12.addActionListener(new ActionListener() {

            public void actionPerformed(ActionEvent e) {

                if (e.getSource() == btnNewButton_12) {

                    ADDJAIL addjail=new ADDJAIL();

                }

            }

        });
```

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```
btnNewButton_12.setFont(new Font("Tahoma", Font.BOLD, 14));  
btnNewButton_12.setBounds(69, 21, 106, 43);  
panel_3.add(btnNewButton_12);
```

```
JButton btnNewButton_13 = new JButton("EDIT JAIL");  
btnNewButton_13.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent e) {  
        if (e.getSource() == btnNewButton_13) {  
            EDITJAIL editjail=new EDITJAIL();  
        }  
    }  
});
```

```
btnNewButton_13.setFont(new Font("Tahoma", Font.BOLD, 14));  
btnNewButton_13.setBounds(69, 116, 106, 43);  
panel_3.add(btnNewButton_13);
```

```
JButton btnNewButton_14 = new JButton("DELETE JAIL");  
btnNewButton_14.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent e) {  
        if (e.getSource() == btnNewButton_14) {  
            DELETEJAIL DELjail=new DELETEJAIL();  
        }  
    }  
});
```

```
btnNewButton_14.setFont(new Font("Tahoma", Font.BOLD, 14));  
btnNewButton_14.setBounds(69, 200, 137, 43);  
panel_3.add(btnNewButton_14);
```

```
JButton btnNewButton_15 = new JButton("VIEW JAIL");
```

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```
        btnNewButton_15.addActionListener(new ActionListener() {  
            public void actionPerformed(ActionEvent e) {  
                if (e.getSource() == btnNewButton_15) {  
                    VIEWJAIL viewjail=new VIEWJAIL();  
                }  
            }  
        });  
  
        btnNewButton_15.setFont(new Font("Tahoma", Font.BOLD, 14));  
        btnNewButton_15.setBounds(69, 293, 127, 43);  
        panel_3.add(btnNewButton_15);  
  
        JLabel lblNewLabel_3 = new JLabel("");  
        Image image3=new ImageIcon(this.getClass().getResource("jail.jpg")).getImage();  
        lblNewLabel_3.setIcon(new ImageIcon(image3));  
        lblNewLabel_3.setBounds(242, 63, 345, 258);  
        panel_3.add(lblNewLabel_3);  
  
        JPanel panel_4 = new JPanel();  
        tabbedPane.addTab("Compond Views", null, panel_4, null);  
        panel_4.setLayout(null);  
  
        JTextArea txtrWhichOfficerHandled = new JTextArea();  
        txtrWhichOfficerHandled.setBackground(Color.CYAN);  
        txtrWhichOfficerHandled.setFont(new Font("Monospaced", Font.BOLD |  
Font.ITALIC, 17));  
        txtrWhichOfficerHandled.setText("OFFICER-handle-FIR");  
        txtrWhichOfficerHandled.setBounds(53, 58, 198, 27);  
        panel_4.add(txtrWhichOfficerHandled);  
  
        JButton btnNewButton_16 = new JButton("VIEW");
```

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```
        btnNewButton_16.addActionListener(new ActionListener() {  
            public void actionPerformed(ActionEvent e) {  
  
                if (e.getSource() == btnNewButton_16) {  
                    OFFICERANDFIR OF=new OFFICERANDFIR();  
                }  
            }  
        });  
        btnNewButton_16.setFont(new Font("Tahoma", Font.BOLD, 15));  
        btnNewButton_16.setBounds(311, 59, 105, 27);  
        panel_4.add(btnNewButton_16);  
  
        JButton btnNewButton_17 = new JButton("VIEW");  
        btnNewButton_17.addActionListener(new ActionListener() {  
            public void actionPerformed(ActionEvent e) {  
                if (e.getSource() == btnNewButton_17) {  
                    OFFICERANDJAIL OFT=new OFFICERANDJAIL();  
                }  
            }  
        });  
        btnNewButton_17.setFont(new Font("Tahoma", Font.BOLD, 14));  
        btnNewButton_17.setBounds(330, 241, 95, 26);  
        panel_4.add(btnNewButton_17);  
  
        JTextArea txtrWhichThiefWent = new JTextArea();  
        txtrWhichThiefWent.setBackground(Color.GREEN);  
        txtrWhichThiefWent.setFont(new Font("Monospaced", Font.BOLD | Font.ITALIC,  
16));
```

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```
        txtrWhichThiefWent.setText("Thief-went-JAIL");

        txtrWhichThiefWent.setBounds(53, 241, 168, 29);

        panel_4.add(txtrWhichThiefWent);


        JTextPane txtpnWelcomeToPolice = new JTextPane();

        txtpnWelcomeToPolice.setBounds(108, 10, 399, 26);

        txtpnWelcomeToPolice.setBackground(Color.ORANGE);

        txtpnWelcomeToPolice.setForeground(Color.BLACK);

        txtpnWelcomeToPolice.setFont(new Font("Tahoma", Font.BOLD, 16));

        txtpnWelcomeToPolice.setText("WELCOME TO POLICE STATION DATABASE");

        frame.getContentPane().add(txtpnWelcomeToPolice);

    }

}
```

OFFICER TABLE:

```
import java.awt.Color;

import java.awt.Font;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;


import javax.swing.JButton;

import javax.swing.JFrame;
```

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```
import javax.swing.JLabel;  
  
import javax.swing.JOptionPane;  
  
import javax.swing.JTable;  
  
import javax.swing.JTextArea;  
  
import javax.swing.JTextField;  
  
import javax.swing.JTextPane;  
  
import javax.swing.ListSelectionModel;  
  
import javax.swing.table.DefaultTableModel;
```

```
class ADDOFFICER {  
  
    private JFrame frame;  
  
    private JTextField textField;  
  
    private JTextField textField_1;  
  
    private JTextField textField_2;  
  
    Connection con;  
  
    Statement stmt;  
  
    ResultSet rs;  
  
    /**  
     * Create the application.  
     */  
  
    public ADDOFFICER() {  
        try  
        {  
            Class.forName("oracle.jdbc.driver.OracleDriver");  
        }  
        catch (Exception e)  
        {  
            System.err.println("Unable to find and load driver");  
            System.exit(1);  
        }  
    }  
}
```

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```
    }

    connectToDB();

    initialize();

    this.frame.setVisible(true);

}

void connectToDB()
{
    try
    {
        con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","saikumar","sql");

        stmt = con.createStatement();

    }

    catch (SQLException connectException)
    {
        System.out.println(connectException.getMessage());

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

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

        System.exit(1);

    }

}

/**
 * Initialize the contents of the frame.
 */
private void initialize() {

    frame = new JFrame();

    frame.setBounds(100, 100, 926, 506);

    //frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

    frame.getContentPane().setLayout(null);
```

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```
JLabel lblNewLabel = new JLabel("OFFICER ID");

lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 16));

lblNewLabel.setBounds(103, 101, 165, 32);

frame.getContentPane().add(lblNewLabel);


JLabel lblNewLabel_1 = new JLabel("OFFICER NAME");

lblNewLabel_1.setFont(new Font("Tahoma", Font.BOLD, 16));

lblNewLabel_1.setBounds(103, 185, 165, 32);

frame.getContentPane().add(lblNewLabel_1);


JLabel lblNewLabel_2 = new JLabel("PHONENO");

lblNewLabel_2.setFont(new Font("Tahoma", Font.BOLD, 16));

lblNewLabel_2.setBounds(103, 259, 128, 39);

frame.getContentPane().add(lblNewLabel_2);


textField = new JTextField();

textField.setBounds(299, 101, 189, 28);

frame.getContentPane().add(textField);

textField.setColumns(10);


textField_1 = new JTextField();

textField_1.setBounds(299, 185, 189, 28);

frame.getContentPane().add(textField_1);

textField_1.setColumns(10);


textField_2 = new JTextField();

textField_2.setBounds(298, 259, 190, 31);

frame.getContentPane().add(textField_2);

textField_2.setColumns(10);


JButton btnNewButton = new JButton("ADD DETAILS");
```

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```
        btnNewButton.addActionListener(new ActionListener() {  
            public void actionPerformed(ActionEvent e) {  
                if (e.getSource() == btnNewButton) {  
                    String name;  
  
                    int phoneno;  
  
                    int id;  
  
                    id = Integer.parseInt(textField.getText());  
  
                    phoneno=Integer.parseInt(textField_2.getText());  
  
                    name=textField_1.getText();  
  
                    try {  
                        //System.out.println(userText);  
  
                        PreparedStatement pstmt = con.prepareStatement("insert into  
officer(officerid,name,phoneno) values (?, ?, ?)");  
  
                        pstmt.setInt(1, id);  
  
                        pstmt.setString(2, name);  
  
                        pstmt.setInt(3, phoneno);  
  
                        int i=pstmt.executeUpdate();  
  
                        //txtmsg.append("\nInserted " + i + " rows  
successfully");  
  
                        JOptionPane.showMessageDialog(null,  
"\nInserted " + i + " rows successfully");  
                    }  
  
                    catch(Exception E)  
                    { System.out.println(E);}  
                }  
            }  
        });  
  
        btnNewButton.setFont(new Font("Tahoma", Font.BOLD, 16));  
  
        btnNewButton.setBounds(227, 344, 189, 39);  
  
        frame.getContentPane().add(btnNewButton);  
  
        JButton btnNewButton_1 = new JButton("clear");
```

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```
        btnNewButton_1.addActionListener(new ActionListener() {  
            public void actionPerformed(ActionEvent e) {  
                if (e.getSource() == btnNewButton_1) {  
                    textField.setText("");  
                    textField_1.setText("");  
                    textField_2.setText("");  
                }  
            }  
        });  
        btnNewButton_1.setFont(new Font("Tahoma", Font.BOLD, 16));  
        btnNewButton_1.setBounds(489, 344, 120, 39);  
        frame.getContentPane().add(btnNewButton_1);  
  
        JTextArea txtrAddOfficer = new JTextArea();  
        txtrAddOfficer.setBackground(Color.ORANGE);  
        txtrAddOfficer.setFont(new Font("Monospaced", Font.BOLD, 19));  
        txtrAddOfficer.setText("ADD OFFICER");  
        txtrAddOfficer.setBounds(294, 10, 146, 39);  
        frame.getContentPane().add(txtrAddOfficer);  
        frame.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);  
    }  
}
```

```
class DELETEOFFICER {  
  
    private JFrame frame;  
    private JTextField textField;  
    private JTextField textField_1;  
    private JTextField textField_2;  
  
    Connection con;  
    Statement stmt;
```

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```
ResultSet rs;

/**
 * Create the application.
 */
public DELETEOFFICER() {
    try
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
    }
    catch (Exception e)
    {
        System.err.println("Unable to find and load driver");
        System.exit(1);
    }
    connectToDB();
    initialize();
    this.frame.setVisible(true);
}

void connectToDB()
{
    try
    {
        con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","saikumar","sql");
        stmt = con.createStatement();

    }
    catch (SQLException connectException)
    {
        System.out.println(connectException.getMessage());
        System.out.println(connectException.getSQLState());
    }
}
```

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

        System.exit(1);

    }

}

/**
 * Initialize the contents of the frame.
 */
private void initialize() {

    frame = new JFrame();

    frame.setBounds(100, 100, 854, 505);

    frame.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);

    frame.getContentPane().setLayout(null);


    JLabel lblNewLabel = new JLabel("ID");

    lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 16));

    lblNewLabel.setBounds(177, 130, 45, 38);

    frame.getContentPane().add(lblNewLabel);


    JLabel lblNewLabel_1 = new JLabel("Name");

    lblNewLabel_1.setFont(new Font("Tahoma", Font.BOLD, 16));

    lblNewLabel_1.setBounds(168, 218, 139, 29);

    frame.getContentPane().add(lblNewLabel_1);


    JLabel lblNewLabel_2 = new JLabel("Phone No");

    lblNewLabel_2.setFont(new Font("Tahoma", Font.PLAIN, 17));

    lblNewLabel_2.setBounds(160, 283, 130, 29);

    frame.getContentPane().add(lblNewLabel_2);


    textField = new JTextField();

    textField.setBounds(268, 132, 96, 29);

    frame.getContentPane().add(textField);
```

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```
textField.setColumns(10);
```

```
textField_1 = new JTextField();
```

```
textField_1.setBounds(268, 218, 139, 26);
```

```
frame.getContentPane().add(textField_1);
```

```
textField_1.setColumns(10);
```

```
textField_2 = new JTextField();
```

```
textField_2.setBounds(268, 283, 139, 27);
```

```
frame.getContentPane().add(textField_2);
```

```
textField_2.setColumns(10);
```

```
JButton btnNewButton = new JButton("DELETE");
```

```
btnNewButton.addActionListener(new ActionListener() {
```

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

```
        if (e.getSource() == btnNewButton) {
```

```
            try {
```

```
                String name;
```

```
                int phoneno;
```

```
                int id;
```

```
                id = Integer.parseInt(textField.getText());
```

```
                phoneno=Integer.parseInt(textField_2.getText());
```

```
                name=textField_1.getText();
```

```
                PreparedStatement pstmt =
```

```
con.prepareStatement("delete from officer where name=(?)and phoneno=(?) and officerid=(?)");
```

```
                pstmt.setInt(3, id);
```

```
                pstmt.setString(1, name);
```

```
                pstmt.setInt(2, phoneno);
```

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```
int i=pstmt.executeUpdate();

//txtmsg.append("\nInserted " + i + "
rows successfully");

JOptionPane.showMessageDialog(null, "\nDeleted " + i + " rows successfully");
    }

    catch(Exception E)
    {
        JOptionPane.showMessageDialog(null, "Check the
details");

        System.out.println(E);
    }
}

}

});

btnNewButton.setFont(new Font("Tahoma", Font.PLAIN, 16));
btnNewButton.setBounds(160, 356, 104, 38);
frame.getContentPane().add(btnNewButton);

JButton btnNewButton_1 = new JButton("VIEW OFFICER DETAILS");
btnNewButton_1.addActionListener(new ActionListener() {

    public void actionPerformed(ActionEvent e) {

        if (e.getSource() == btnNewButton_1) {

            VIEWOFFICER vf=new VIEWOFFICER();

        }

    }

});
```

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```
        btnNewButton_1.setFont(new Font("Tahoma", Font.PLAIN, 15));

        btnNewButton_1.setBounds(342, 356, 226, 38);

        frame.getContentPane().add(btnNewButton_1);


        JTextArea txtrMandatory = new JTextArea();

        txtrMandatory.setBackground(new Color(255, 255, 255));

        txtrMandatory.setFont(new Font("Monospaced", Font.PLAIN, 17));

        txtrMandatory.setText("Id is Mandatory!");

        txtrMandatory.setBounds(177, 178, 205, 29);

        frame.getContentPane().add(txtrMandatory);


        JLabel lblNewLabel_3 = new JLabel("DELETE OFFICER");

        lblNewLabel_3.setFont(new Font("Tahoma", Font.BOLD, 18));

        lblNewLabel_3.setBounds(228, 35, 179, 29);

        frame.getContentPane().add(lblNewLabel_3);

    }

}
```

```
class EDITOFFICER {
```

```
    private JFrame frame;

    private JTextField textField;

    private JTextField textField_1;

    private JTextField textField_2;

    Connection con;

    Statement stmt;

    ResultSet rs;

    /**
     * Create the application.
     */

    public EDITOFFICER() {
```

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```
        try
        {
            Class.forName("oracle.jdbc.driver.OracleDriver");
        }
        catch (Exception e)
        {
            System.err.println("Unable to find and load driver");
            System.exit(1);
        }
        connectToDB();
        initialize();
        this.frame.setVisible(true);
    }
    void connectToDB()
    {
        try
        {
            con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","saikumar","sql");
            stmt = con.createStatement();

        }
        catch (SQLException connectException)
        {
            System.out.println(connectException.getMessage());
            System.out.println(connectException.getSQLState());
            System.out.println(connectException.getErrorCode());
            System.exit(1);
        }
    }
}
/**
```

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*** Initialize the contents of the frame.**

***/**

```
private void initialize() {  
  
    frame = new JFrame();  
  
    frame.setBounds(100, 100, 854, 505);  
    frame.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);  
    frame.getContentPane().setLayout(null);  
  
    JLabel lblNewLabel = new JLabel("ID");  
    lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 16));  
    lblNewLabel.setBounds(177, 130, 45, 38);  
    frame.getContentPane().add(lblNewLabel);  
  
    JLabel lblNewLabel_1 = new JLabel("Name");  
    lblNewLabel_1.setFont(new Font("Tahoma", Font.BOLD, 16));  
    lblNewLabel_1.setBounds(168, 218, 139, 29);  
    frame.getContentPane().add(lblNewLabel_1);  
  
    JLabel lblNewLabel_2 = new JLabel("Phone No");  
    lblNewLabel_2.setFont(new Font("Tahoma", Font.PLAIN, 17));  
    lblNewLabel_2.setBounds(160, 283, 130, 29);  
    frame.getContentPane().add(lblNewLabel_2);  
  
    textField = new JTextField();  
    textField.setBounds(268, 132, 96, 29);  
    frame.getContentPane().add(textField);  
    textField.setColumns(10);  
  
    textField_1 = new JTextField();  
    textField_1.setBounds(268, 218, 139, 26);  
    frame.getContentPane().add(textField_1);  
}
```

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```
textField_1.setColumns(10);

textField_2 = new JTextField();
textField_2.setBounds(268, 283, 139, 27);
frame.getContentPane().add(textField_2);
textField_2.setColumns(10);

JButton btnNewButton = new JButton("EDIT");
btnNewButton.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        if (e.getSource() == btnNewButton) {
            try {
                String name;

                int phoneno;

                int id;

                id = Integer.parseInt(textField.getText());
                phoneno=Integer.parseInt(textField_2.getText());
                name=textField_1.getText();

                PreparedStatement pstmt = con.prepareStatement("update
officer set name=(?),phoneno=(?) where officerid=(?)");

                pstmt.setInt(3, id);
                pstmt.setString(1, name);
                pstmt.setInt(2, phoneno);
                int i=pstmt.executeUpdate();

                //txtmsg.append("\nInserted " + i + " rows
successfully");

                JOptionPane.showMessageDialog(null,
"\nUpdated " + i + " rows successfully");
            }
            catch(Exception E)
```

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```
        {
            JOptionPane.showMessageDialog(null, "Check the details");
            System.out.println(E);
        }
    }
}

});

btnNewButton.setFont(new Font("Tahoma", Font.PLAIN, 16));
btnNewButton.setBounds(160, 356, 104, 38);
frame.getContentPane().add(btnNewButton);


JButton btnNewButton_1 = new JButton("VIEW OFFICER DETAILS");
btnNewButton_1.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        if (e.getSource() == btnNewButton_1) {
            VIEWOFFICER vf=new VIEWOFFICER();
        }
    }
});

btnNewButton_1.setFont(new Font("Tahoma", Font.PLAIN, 15));
btnNewButton_1.setBounds(342, 356, 226, 38);
frame.getContentPane().add(btnNewButton_1);


JTextArea txtrMandotory = new JTextArea();
txtrMandotory.setBackground(new Color(255, 255, 255));
txtrMandotory.setFont(new Font("Monospaced", Font.PLAIN, 17));
txtrMandotory.setText("Id is Mandotory!");
txtrMandotory.setBounds(177, 178, 205, 29);
frame.getContentPane().add(txtrMandotory);


JLabel lblNewLabel_3 = new JLabel("EDIT OFFICER");
```

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```
        lblNewLabel_3.setFont(new Font("Tahoma", Font.BOLD, 18));

        lblNewLabel_3.setBounds(228, 35, 179, 29);

        frame.getContentPane().add(lblNewLabel_3);

    }

}

class VIEWOFFICER {

    private JFrame frame;

    private JTable table;

    String[][] tbl=new String[100][100];

    Connection con;

    Statement stmt;

    ResultSet rs;

    private JLabel lblNewLabel;

    private JLabel lblNewLabel_1;

    private JLabel lblNewLabel_2;

    /**
     * Create the application.
     */
    VIEWOFFICER() {

        try

        {

            Class.forName("oracle.jdbc.driver.OracleDriver");

        }

        catch (Exception e)

        {

            System.err.println("Unable to find and load driver");

            System.exit(1);

        }

        connectToDB();

    }

}
```

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```
        initialize();

        this.frame.setVisible(true);
    }

    void connectToDB()
    {
        try
        {
            con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","saikumar","sql");

            stmt = con.createStatement();

        }
        catch (SQLException connectException)
        {
            System.out.println(connectException.getMessage());
            System.out.println(connectException.getSQLState());
            System.out.println(connectException.getErrorCode());
            System.exit(1);
        }
    }
}

/**
 * Initialize the contents of the frame.
 */
private void initialize() {
    frame = new JFrame();

    frame.setBounds(100, 100, 797, 503);

    frame.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);

    frame.getContentPane().setLayout(null);

    JTextPane txtpnOfficerDetails = new JTextPane();

    txtpnOfficerDetails.setFont(new Font("Tahoma", Font.BOLD, 21));
```

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```
txtpnOfficerDetails.setText("OFFICER DETAILS");

txtpnOfficerDetails.setBounds(140, 23, 239, 32);

frame.getContentPane().add(txtpnOfficerDetails);

try {

    ResultSet rs=stmt.executeQuery("select * from officer");

    int i=0;

    while(rs.next()) {

        //System.out.println(rs.getString(1)+" "+rs.getString(2)+"

"+rs.getString(3));

        tbl[i][0]=rs.getString(1);

        tbl[i][1]=rs.getString(2);

        tbl[i][2]=rs.getString(3);

        i=i+1;

    }

    for(int j=0;i<5;i++) {

        System.out.println(tbl[i][0]+" "+tbl[i][1]+" "+tbl[i][2]+" ");

    }

}

table = new JTable();

table.setRowSelectionAllowed(false);

table.setSurrendersFocusOnKeystroke(true);

table.setModel(new DefaultTableModel(

    tbl,

    new String[] {

        "OFFICER ID", "NAME", "PHONENO"

    }

));
```

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```
        table.setSelectionMode(ListSelectionModel.SINGLE_SELECTION);

        table.setBounds(29, 137, 723, 121);

        frame.getContentPane().add(table);


        lblNewLabel = new JLabel("OfficerID");

        lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 17));

        lblNewLabel.setBounds(83, 98, 235, 26);

        frame.getContentPane().add(lblNewLabel);


        lblNewLabel_1 = new JLabel("Name");

        lblNewLabel_1.setFont(new Font("Tahoma", Font.BOLD, 17));

        lblNewLabel_1.setBounds(315, 98, 160, 23);

        frame.getContentPane().add(lblNewLabel_1);


        lblNewLabel_2 = new JLabel("Phone no");

        lblNewLabel_2.setFont(new Font("Tahoma", Font.BOLD, 17));

        lblNewLabel_2.setBounds(560, 98, 128, 23);

        frame.getContentPane().add(lblNewLabel_2);
    }

    catch(Exception E)

    {

        System.out.println(E);

    }

}

}
```

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MAIN:

```
public class main {  
  
    public static void main(String[] args) {  
        try {  
            login window = new login();  
  
        } catch (Exception e) {  
            e.printStackTrace();  
        }  
  
    }  
  
}
```

GitHub links and folder structure:

<https://github.com/saikumarreddybarda/PoliceStationDataBase>

PoliceStationDB

e Share View

↑ > This PC > Local Disk (C:) > Users > user > eclipse-workspace > PoliceStationDB >

	Name	Date modified	Type	Size
Access				
ip	.settings	6/15/2021 10:29 AM	File folder	
oads	bin	6/19/2021 6:52 PM	File folder	
rents	image	6/17/2021 4:22 PM	File folder	
is	screenshots	6/18/2021 8:20 PM	File folder	
ments	src	6/19/2021 4:44 PM	File folder	
shots	.classpath	6/16/2021 4:25 PM	CLASSPATH File	1 KB
	.project	6/15/2021 10:29 AM	PROJECT File	1 KB

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n

Share View

This PC > Local Disk (C:) > Users > user > eclipse-workspace > PoliceStationDB > bin

	Name	Date modified	Type	Size
ss	ADDFIR\$1.class	6/19/2021 4:24 PM	CLASS File	3 KB
js	ADDFIR\$2.class	6/19/2021 4:24 PM	CLASS File	2 KB
its	ADDFIR.class	6/19/2021 4:24 PM	CLASS File	4 KB
	ADDJAIL\$1.class	6/19/2021 4:24 PM	CLASS File	3 KB
	ADDJAIL\$2.class	6/19/2021 4:24 PM	CLASS File	2 KB
nts	ADDJAIL.class	6/19/2021 4:24 PM	CLASS File	4 KB
ots	ADDOFFICER\$1.class	6/19/2021 4:24 PM	CLASS File	3 KB
	ADDOFFICER\$2.class	6/19/2021 4:24 PM	CLASS File	2 KB
	ADDOFFICER.class	6/19/2021 4:24 PM	CLASS File	4 KB
	ADDTHIEVES\$1.class	6/19/2021 4:24 PM	CLASS File	3 KB
	ADDTHIEVES\$2.class	6/19/2021 4:24 PM	CLASS File	2 KB
its	ADDTHIEVES.class	6/19/2021 4:24 PM	CLASS File	4 KB
	DELETEDFIR\$1.class	6/19/2021 4:24 PM	CLASS File	3 KB
	DELETEDFIR\$2.class	6/19/2021 4:24 PM	CLASS File	1 KB
ts	DELETEDFIR.class	6/19/2021 4:24 PM	CLASS File	5 KB
	DELETEJAIL\$1.class	6/19/2021 4:24 PM	CLASS File	3 KB
	DELETEJAIL\$2.class	6/19/2021 4:24 PM	CLASS File	1 KB
its	DELETEJAIL.class	6/19/2021 4:24 PM	CLASS File	4 KB
js	DELETOFFICER\$1.class	6/19/2021 4:24 PM	CLASS File	3 KB
	DELETOFFICER\$2.class	6/19/2021 4:24 PM	CLASS File	1 KB
	DELETOFFICER.class	6/19/2021 4:24 PM	CLASS File	4 KB
	DELETETHIEVES\$1.class	6/19/2021 4:24 PM	CLASS File	3 KB
(C:)	DELETETHIEVES\$2.class	6/19/2021 4:24 PM	CLASS File	1 KB
(D:)	DELETETHIEVES.class	6/19/2021 4:24 PM	CLASS File	4 KB
(E:)	EDITFIR\$1.class	6/19/2021 4:24 PM	CLASS File	3 KB
	EDITFIR\$2.class	6/19/2021 4:24 PM	CLASS File	1 KB
	EDITFIR.class	6/19/2021 4:24 PM	CLASS File	5 KB
	EDITJAIL\$1.class	6/19/2021 4:24 PM	CLASS File	3 KB
	EDITJAIL\$2.class	6/19/2021 4:24 PM	CLASS File	1 KB
	EDITJAIL.class	6/19/2021 4:24 PM	CLASS File	4 KB
	EDITOFFICER\$1.class	6/19/2021 4:24 PM	CLASS File	3 KB

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src

e Share View

↑ > This PC > Local Disk (C:) > Users > user > eclipse-workspace > PoliceStationDB > src

Name	Date modified	Type	Size
FIR	6/18/2021 7:54 PM	JAVA File	20 KB
jail	6/18/2021 7:59 PM	JAVA File	16 KB
login	6/18/2021 8:04 PM	JAVA File	5 KB
main	6/18/2021 8:04 PM	JAVA File	1 KB
main_frame	6/18/2021 7:33 PM	JAVA File	12 KB
officer	6/18/2021 7:57 PM	JAVA File	18 KB
OFFICERANDFIR	6/18/2021 11:03 AM	JAVA File	5 KB
OFFICERANDJAIL	6/18/2021 7:34 PM	JAVA File	4 KB
oracleCONN	6/18/2021 8:09 PM	JAVA File	1 KB
thieves	6/18/2021 8:01 PM	JAVA File	17 KB

Testing:

Java GUI Testing:

Do you want Enter into POLICE STATION DATABASE? Please login

LOGIN FORM

OFFICER NAME

PASSWORD

LOGIN

Message

Invalid Username or Password

OK

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DBMS Assignment-01

Title : Police Station Database

POLICE STATION DATABASE

WELCOME TO POLICE STATION DATABASE


Officer FIR Thieves Jail Compound Views

ADD OFFICER

EDIT OFFICER

DELETE OFFICER

VIEW OFFICERS



ADD OFFICER


OFFICER ID

OFFICER NAME

PHONENO

ADD DETAILS **clear**

Message

 Inserted 1 rows successfully

OK

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DBMS Assignment-01

Title : Police Station Database

```
Run SQL Command Line

SQL> select * from OFFICER;

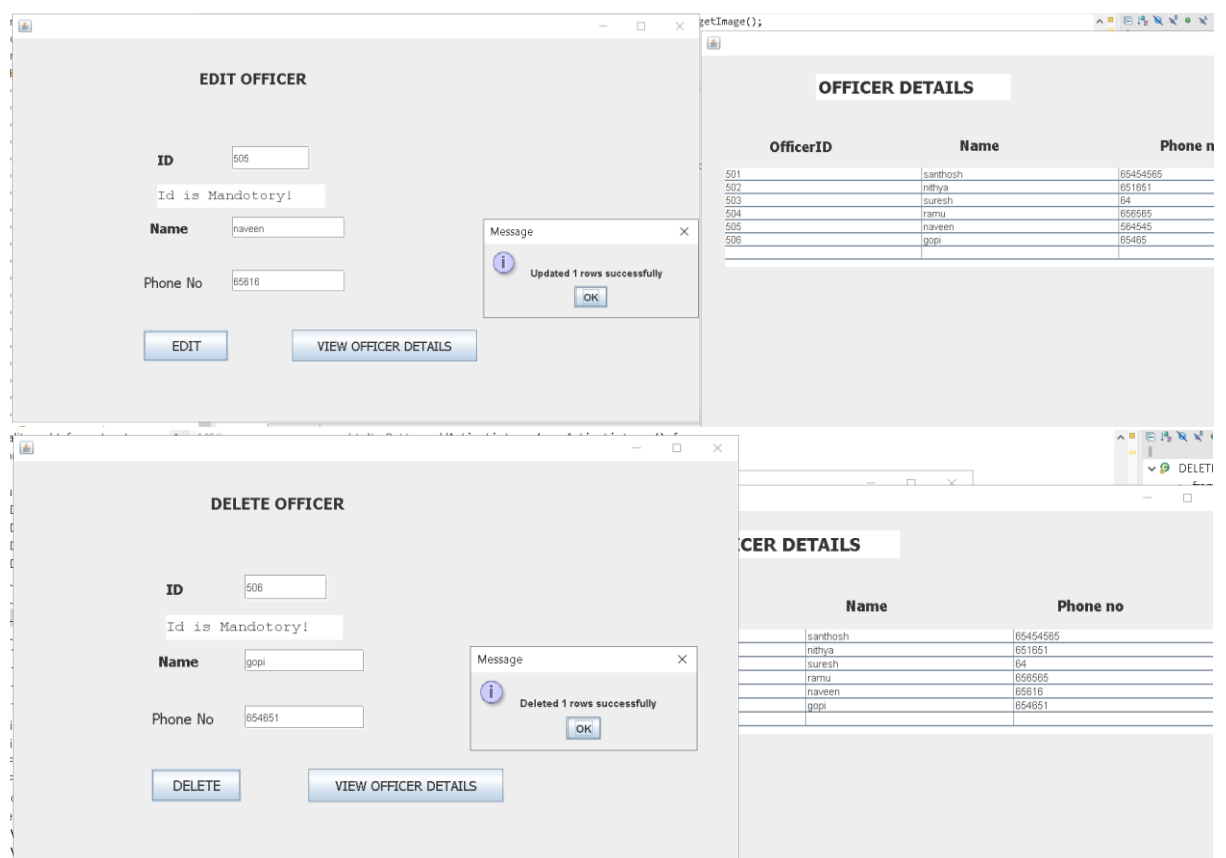
OFFICERID NAME          PHONENO  USERID
-----
501  santhosh          65454565  10
502  nithya            651651   11
503  suresh              64       12
504  ramu                656565   13
505  naveen              564545   14

SQL> select * from OFFICER;

OFFICERID NAME          PHONENO  USERID
-----
501  santhosh          65454565  10
502  nithya            651651   11
503  suresh              64       12
504  ramu                656565   13
505  naveen              564545   14
506  gopi                65465

5 rows selected.

SQL>
```



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```
Run SQL Command Line
504 ramu          656565      13
505 naveen        564545      14

SQL> select * from OFFICER;

OFFICERID NAME          PHONENO      USERID
-----
501 santhosh          65454565      10
502 nithya            651651        11
503 suresh            64             12
504 ramu              656565        13
505 naveen            564545        14
506 gopi              65465

5 rows selected.

SQL> select * from OFFICER;

OFFICERID NAME          PHONENO      USERID
-----
501 santhosh          65454565      10
502 nithya            651651        11
503 suresh            64             12
504 ramu              656565        13
505 naveen            65616         14

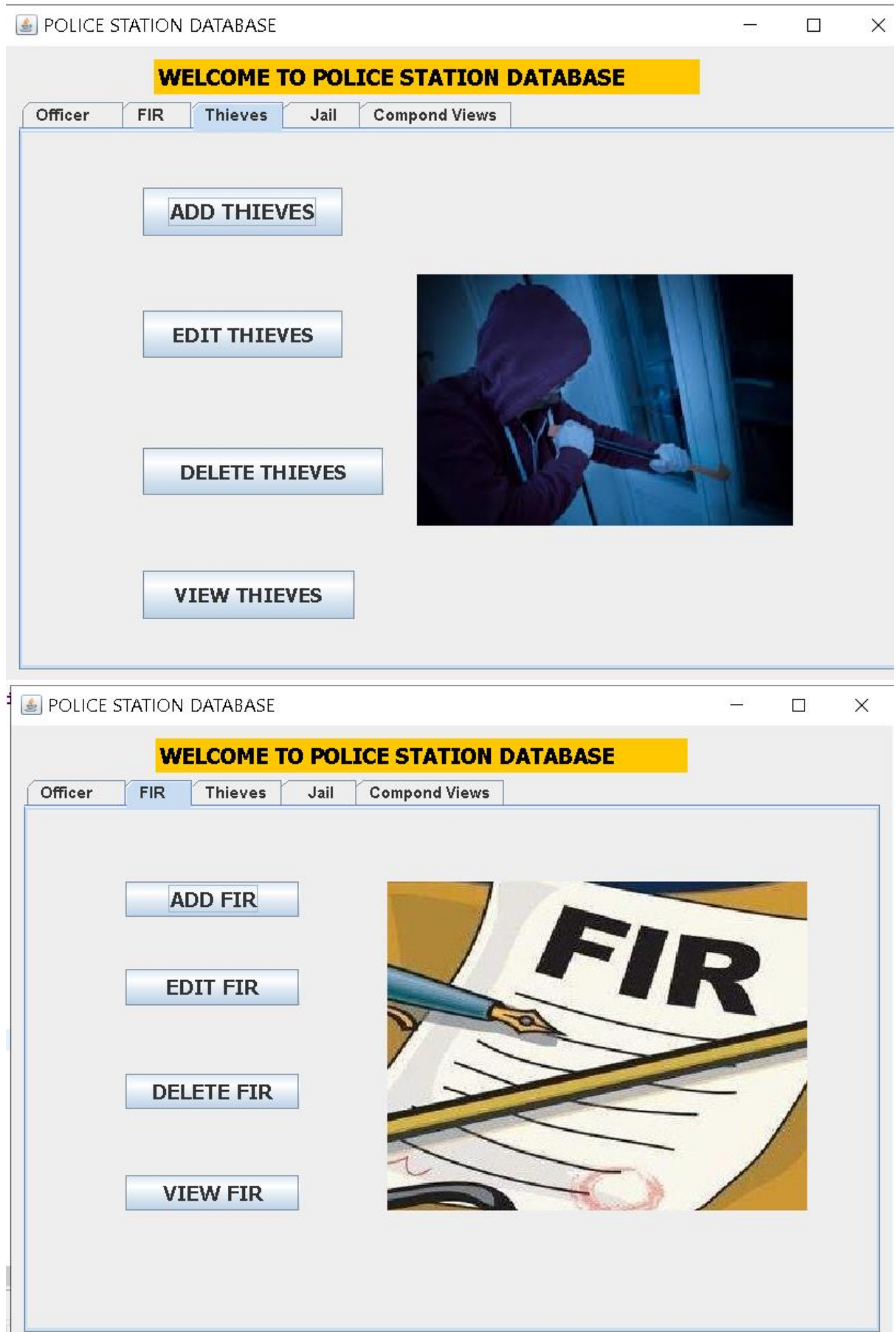
SQL>
```

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DBMS Assignment-01

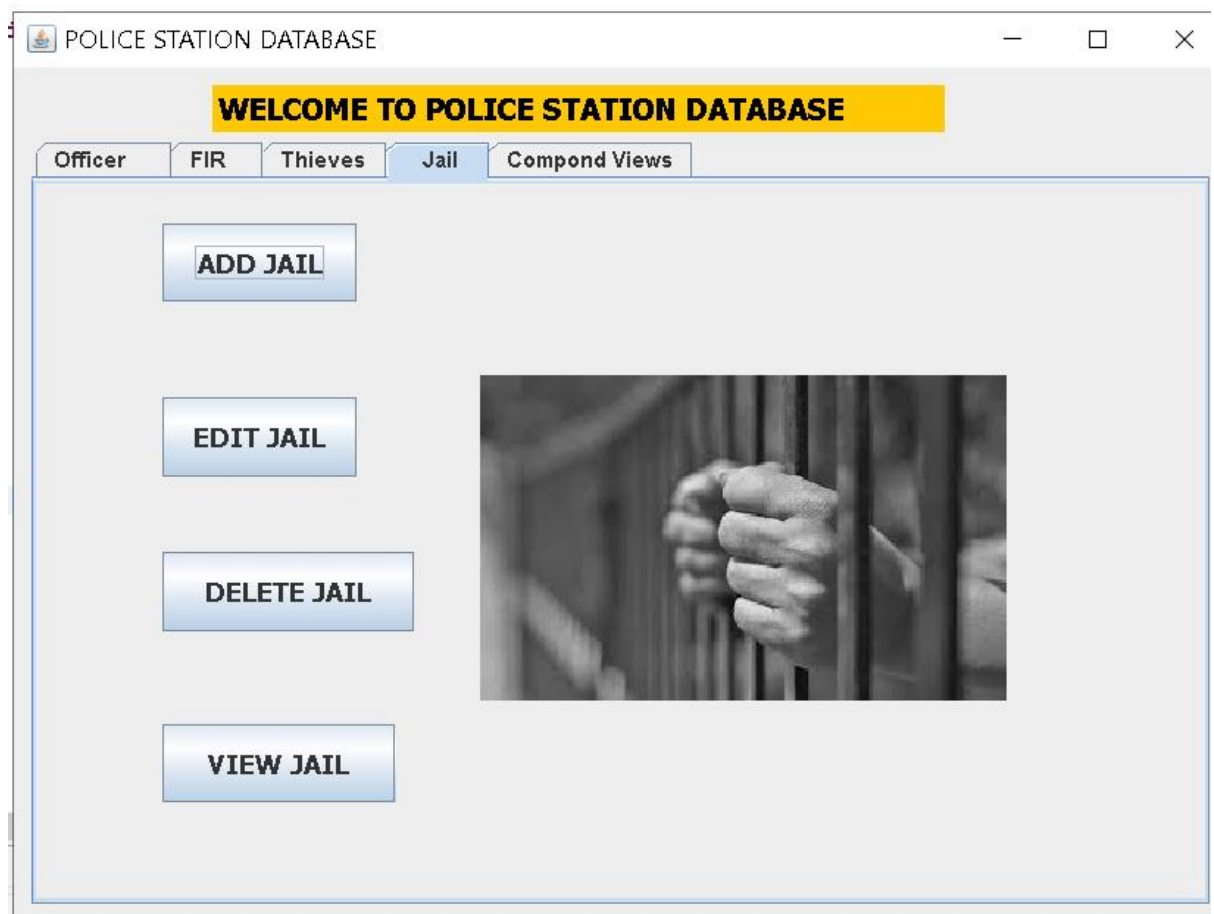
Title : Police Station Database



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DBMS Assignment-01

Title : Police Station Database



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NAME : B.Sai Kumar Reddy

DBMS Assignment-01

Title : Police Station Database

POLICE STATION DATABASE

WELCOME TO POLICE STATION DATABASE

Officer FIR Thieves Jail **Compound Views**

OFFICER-handle-FIR **VIEW**

Thief-went-JAIL **VIEW**

OFFICER & FIR DETAILS

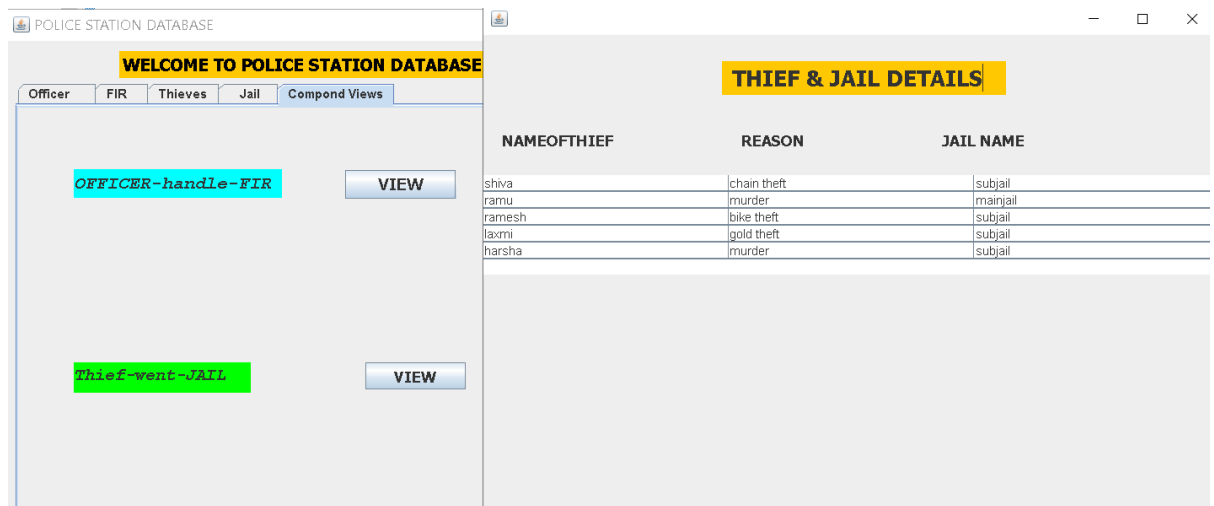
OFFICER NAME	OfficerPhoneNo	NAMEOFINFORMER	NAMEOFCRIMINAL	DESCRIPTIONOFOFFENCE
nithya	651651	gopal	ramu	murder
suresh	84	hari	ramesh	bike theft
ramu	656565	suresh	ramesh	bike theft
naveen	65616	harshith	harsha	murder

1001 D:\VA ADDITIONAL C:\PROGRAM FILES\VA\VA\14.0.7\WINVA\VA\WEB\DOT 16: 2021/7/46:57 PM

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DBMS Assignment-01

Title : Police Station Database



NAME OF THIEF	REASON	JAIL NAME
shiva	chain theft	subjail
ramu	murder	mainjail
ramesh	bike theft	subjail
laxmi	gold theft	subjail
harsha	murder	subjail

Results:

I successfully completed this MINI PROJECT "POLICE STATION DATABASE".

Discussion and Future work :

While doing this project I got new ideas I understood how to work on projects. Now to further extend this project I want to create a android app by which I can control my project on my hand and connect to it.

References:

- <https://docs.oracle.com/javase/7/docs/index.html>
- <https://www.javatpoint.com/dbms-tutorial>
- [Configure JDBC Connection to SQL Server - SQLines Tools](#)