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19BCE2105

Lab Activity-9

Deadline 02/12/2021 at 11.59pm for 100%, for 70% at 10.59pm 03/12/2021

9(a) Develop the JDBC with MySQL/Oracle database to perform the following

- i) Create a table of your choice with minimum of five fields/columns.
- ii) Insert at least ten records into the table.
- iii) Display all the records in the table.
- iv) Delete the particular record in the table.
- v) Update the table with specific field/column
- vi) Alter the table by adding the new field/column or drop the existing field/column.

Solution:

I'm adding entire code of all 6 parts at once. While running the program though, I made parts of the code as comments (which you may see in the screenshots below) in order for them not to hinder the execution.

```
yolo.java
```

```
package sharad;
import java.sql.*;
public class yolo {
    public static void main(String args[]) {
        try{
            Class.forName("com.mysql.jdbc.Driver"); //load driver
            String url="jdbc:mysql://localhost:3306/yolo"; //connect to
database
            String username="root";
            String password="2105";
            Connection
con=DriverManager.getConnection(url,username,password); //create connection
            String q="create table udata(id int(20) primary key
auto_increment, name varchar(200), city varchar(400),age int(20),gender
varchar(200))";
            String q2="insert into udata(name,city,age,gender)
values(?,?,?,?)";
```

```
stmt.executeUpdate(q);
            PreparedStatement pstmt=con.prepareStatement(q2);
            pstmt.setString(1,"Raju");
            pstmt.setString(2,"Chennai");
            pstmt.setInt(3, 25);
            pstmt.setString(4, "Male");
            pstmt.setString(1,"Varun");
            pstmt.setString(2,"Mumbai");
            pstmt.setInt(3, 20);
            pstmt.setString(4, "Male");
            pstmt.setString(1,"Ananya");
            pstmt.setString(2,"Kolkata");
            pstmt.setInt(3, 20);
            pstmt.setString(4,"Female");
            pstmt.setString(1,"Tanmay");
            pstmt.setString(2,"Kanpur");
            pstmt.setInt(3, 21);
            pstmt.setString(4,"Male");
            pstmt.setString(1, "Ayushman");
            pstmt.setString(2, "Gwalior");
            pstmt.setInt(3, 22);
            pstmt.setString(4,"Male");
            pstmt.executeUpdate();
            System.out.println("Table Created");
            System.out.println("Inserted.....");
            String q3="select * from udata where name='Ananya' or age=20";
            Statement stmt=con.createStatement();
            ResultSet set=stmt.executeQuery(q3);
            while(set.next())
            {
                int id=set.getInt(1);
                String name=set.getString(2);
                String city=set.getString(3);
                int age=set.getInt(4);
                String gender=set.getString(5);
                System.out.println(id+":"+name+":"+city+":"+age+":"+gender);
            }
            String q4="update udata set age=19 , city='Bengaluru' where
name='Ananya'";
            String q5="select*from udata";
            Statement stmt=con.createStatement();
```

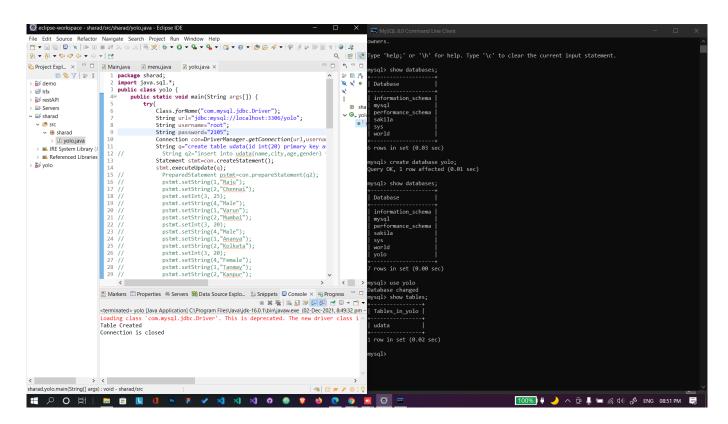
Statement stmt=con.createStatement();

```
stmt.executeUpdate(q4);
            ResultSet set=stmt.executeQuery(q5);
            while(set.next())
              {
                int id=set.getInt(1);
                String name=set.getString(2);
                String city=set.getString(3);
                int age=set.getInt(4);
                String gender=set.getString(5);
                System.out.println(id+":"+name+":"+city+":"+age+":"+gender);
              }
            String q6="delete from udata where name='Varun'";
            String q7="select*from udata";
            Statement stmt=con.createStatement();
            stmt.executeUpdate(q6);
            ResultSet set=stmt.executeQuery(q7);
            while(set.next())
              {
                int id=set.getInt(1);
                String name=set.getString(2);
                String city=set.getString(3);
                int age=set.getInt(4);
                String gender=set.getString(5);
                System.out.println(id+":"+name+":"+city+":"+age+":"+gender);
              }
            String q8="alter table udata add email varchar(200)";
            String q9="select*from udata";
            Statement stmt=con.createStatement();
            stmt.executeUpdate(q8);
            ResultSet set=stmt.executeQuery(q9);
            while(set.next())
              {
                int id=set.getInt(1);
                String name=set.getString(2);
                String city=set.getString(3);
                int age=set.getInt(4);
                String gender=set.getString(5);
                String email=set.getString(6);
                System.out.println(id+":"+name+":"+city+":"+age+":"+gender+":
"+email);
              }
            con.close();
```

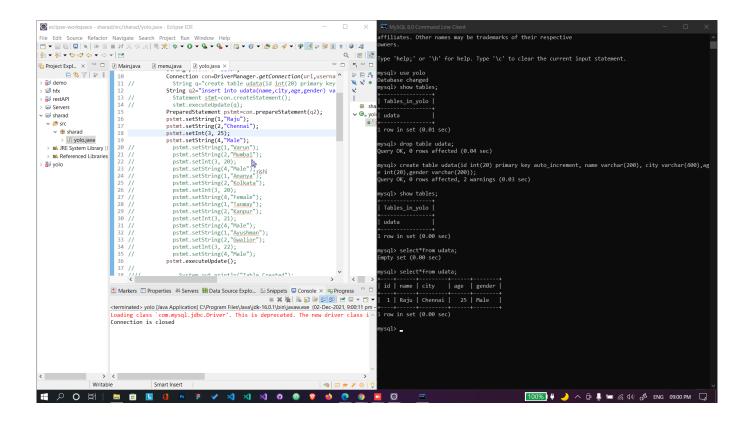
```
if(con.isClosed())
{
          System.out.println("Connection is closed");
    }
     else
      {
               System.out.println("Connection is created");
       }
}
catch(Exception e)
      {
               e.printStackTrace();
       }
}
```

• Table creation:

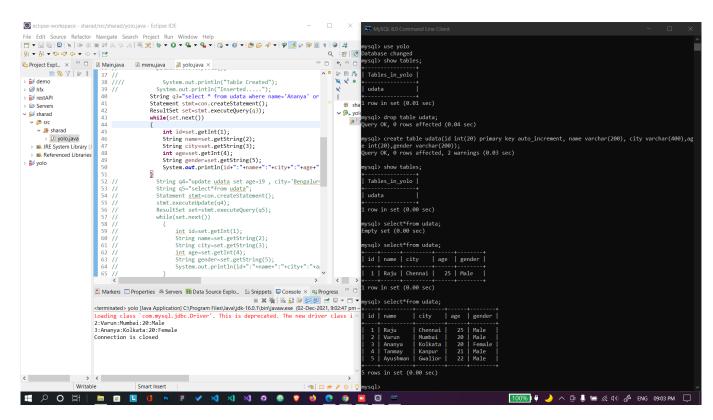
}



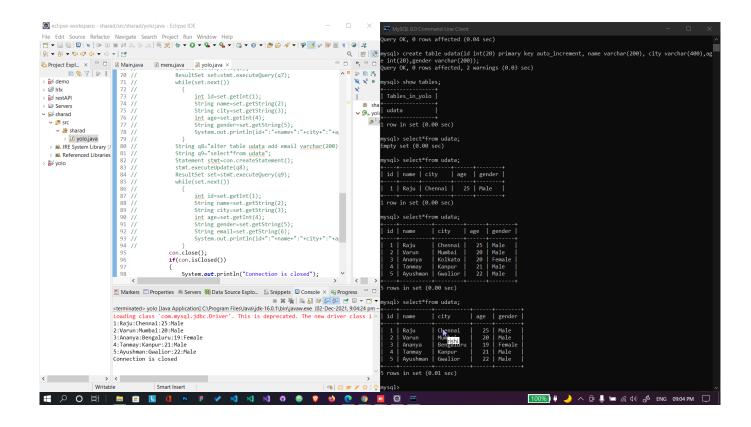
• Table insertion:



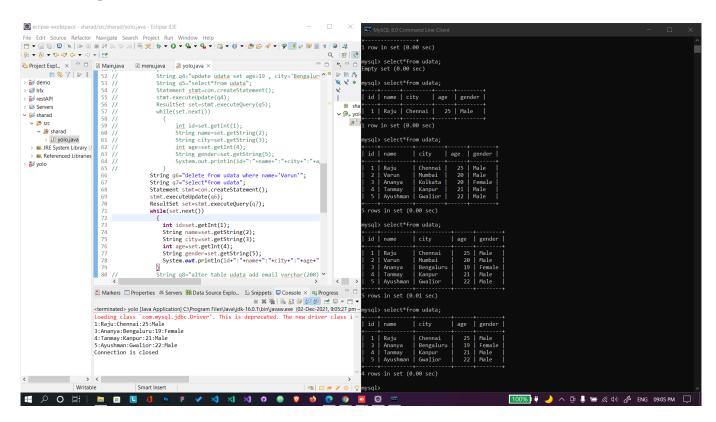
• Displaying the records:



• Updating the records:



• Deleting the records:



• Altering the table and adding another column:

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