

MODERN APPLICATION DEVELOPMENT (JAVA SPRINGBOOT)

Assignment 3 for SMARTBRIDGE externship program



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1) Connection of Java Data Base Connectivity (JDBC) Driver to the Java Eclipse IDE.

```
Code:
```

```
import java.sql.DriverManager;
import java.sql.Connection;
public class JDBCExample
        public static void main(String args[])
                 try
                 {
                          //1.register the driver
                          Class.forName("com.mysql.cj.jdbc.Driver");
                          //2.Connection
                          Connection
conn=DriverManager.getConnection("jdbc:mysq1://localhost:3306/ereserv","root","A#2002
@NwoK277&");
                          System.out.println("Driver Connected Successfully.!");
                          //3.Closing the connection
                          conn.close();
                 catch(Exception e)
                          e.printStackTrace();

    JDBCExample.java 
    X

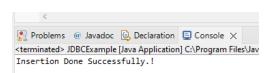
  1⊖ import java.sql.DriverManager;
2 import java.sql.Connection;
    public class JDBCExample
        public static void main(String args[])
 10
                //1.register the driver
               Class.forName("com.mysql.cj.jdbc.Driver");
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               Connection conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/ereserv","root","A#2002@Nwo
               System.out.println("Driver Connected Successfully.!");
                //3.Closing the connection
               conn.close();
            catch(Exception e)
               e.printStackTrace();
 26
 28
Problems @ Javadoc Declaration Console X
<terminated> JDBCExample [Java Application] C:\Program Files\Java\jdk-18.0.1.1\bin\javaw.exe (7 Jun 2023, 14:42:36 – 14:42:41) [pid: 7812]
Driver Connected Successfully.!
```

2.Insertion of data to database using java IDE.

	PNRno	Pname	P_Age
•	1123456782	Rajan	42
	NULL	NULL	NULL

Before Insertion.

```
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.Connection;
public class JDBCExample
      public static void main(String args[])
             try
             {
                    //1.register the driver
                    Class.forName("com.mysql.cj.jdbc.Driver");
                    //2.Connection
                    Connection
conn=DriverManager.getConnection("jdbc:mysq1://localhost:3306/ereserv","root","A#2002
@NwoK277&");
                    //3.Statement
                    PreparedStatement stmt=conn.prepareStatement("insert into
passengerlist values(?,?,?)");
                    stmt.setInt(1,1023227895);
                    stmt.setString(2,"Kumaran");
                    stmt.setInt(3,15);
                    //4.Execute update
                    stmt.executeUpdate();
                    System.out.println("Insertion Done Successfully.!");
                    //5.Closing the connection
                    conn.close();
             catch(Exception e)
                    e.printStackTrace();
      }
Console:
                                          MySQL database:
```



	PNRno	Pname	P_Age	
•	1023227895	Kumaran	15	
	1123456782	Rajan	42	
	NULL	NULL		

After insertion.

```
3. Updating a row entry using JAVA IDE.
Code.
import java.sql.DriverManager;
import java.sql.Statement;
import java.sql.Connection;
public class JDBCExample
       public static void main(String args[])
              try
               {
                      //1.register the driver
                      Class.forName("com.mysql.cj.jdbc.Driver");
                      //2.Connection
                      Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/ereserv","root","A#2002
@NwoK277&");
                      //3.Statement
                      Statement stmt=conn.createStatement();
                      //4.Execute update
                      int rs = stmt.executeUpdate("update passengerlist set
PNRno=1000000238, Pname='MADHAN', P_Age=32 where PNRno=1023227895");
                      if(rs>0) {System.out.println("Update/alter Done
Successfully.!");}
                      //5.Closing the connection
                      conn.close();
              catch(Exception e)
                      e.printStackTrace();
       }
Console:
🔛 Problems @ Javadoc 🚇 Declaration 📃 Console 🗶
<terminated> JDBCExample [Java Application] C:\Program Files\Java\jo
Update/alter Done Successfully.!
MySQL database:
                                                 PNRno
              Pname
                     P_Age
                                                   PNRno
                                                            Pname
                                                                   P_Age
   1023227895
             Kumaran
                     15
                                                   1000000238
                                                           MADHAN
                                                                  32
   1123456782
             Rajan
                     42
                                                   1123456782
                                                           Rajan
                                                                  42
                                                                  NULL
                     NULL
                                                  NULL
```

Before updation

After Updation

4.deleting a row entry using java IDE.

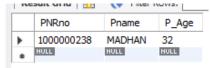
```
Code:
```

```
import java.sql.DriverManager;
import java.sql.Statement;
import java.sql.Connection;
public class JDBCExample
      public static void main(String args[])
             try
             {
                    //1.register the driver
                    Class.forName("com.mysql.cj.jdbc.Driver");
                    //2.Connection
                    Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/ereserv","root","A#2002
@NwoK277&");
                    //3.Statement
                    Statement stmt=conn.createStatement();
                    //4.Execute update
                    int rs = stmt.executeUpdate("delete from passengerlist where
PNRno=1123456782");
                    if(rs>0) {System.out.println("Deletion Done Successfully.!");}
                    //5.Closing the connection
                    conn.close();
             catch(Exception e)
                    e.printStackTrace();
      }
Console:
Problems @ Javadoc Declaration Console X
```

<terminated> JDBCExample [Java Application] C:\Program Files\Java Deletion Done Successfully.!

MySQL database:

	PNRno 🔺	Pname	P_Age
	1000000238	MADHAN	32
•	1123456782	Rajan	42
	NULL	NULL	NULL



After deletion

5. Retrieving the data form MySQL database using java IDE.

```
Code:
```

```
import java.sql.DriverManager;
import java.sql.Statement;
import java.sql.Connection;
import java.sql.ResultSet;
public class JDBCExample
      public static void main(String args[])
             try
             {
                    //1.register the driver
                    Class.forName("com.mysql.cj.jdbc.Driver");
                    //2.Connection
                    Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/ereserv","root","A#2002
@NwoK277&");
                    //3.Statement
                    Statement stmt=conn.createStatement();
                    //4.Execute update
                    ResultSet rs = stmt.executeQuery("select * from passengerlist");
                    System.out.println("Here are the table contents:");
                    while(rs.next())
                           System.out.println(rs.getInt(1)+" "+rs.getString(2)+"
"+rs.getInt(3));
                    //5.Closing the connection
                    conn.close();
             catch(Exception e)
                    e.printStackTrace();
      }
}
Console:
 Problems 🏿 @ Javadoc 📵 Declaration 📮 Console 🗶
<terminated> JDBCExample [Java Application] C:\Program Files\J
Here are the table contents:
1000000238 MADHAN 32
```