

OOP Lab: Experiment 11

Submitted By: Aryan Saxena

Batch: B1

SAP Id: 500082431

Roll No.: R214220274

Exercise 1:

Code:

```
import java.sql.*;

public class JDBC1
{
    public static void main(String[] args)
    {
        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/jdbcass","root","
0000");

            Statement stmt = con.createStatement();
            int n = stmt.executeUpdate("create table Employee(Name
varchar(255), ID int, Email varchar(255), Number long)");
            String Data="INSERT INTO Employee("
+ "Name, ID, Email, Number) VALUES "
+ "('Aryan', 001, 'ar@gmail.com',9876543210), "
+ "('Arann', 002, 'arr@gmail.com',9876543210), "
+ "('Aryannn', 003, 'arrr@gmail.com',9876543210), "
+ "('Aryannnn', 004, 'arrrr@gmail.com',9876543210);";
            n = stmt.executeUpdate(Data);
            System.out.println("Number of rows updated: "+n);
            con.close();
        }
        catch(Exception e)
        {
            System.out.println(e);
        }
    }
}
```

Output:

```
PS F:\UPES\Academics\2nd Year\3rd Semester\OOPs Theory\sem3-Java-OOP\LAB\Experiment 11\JDBC_Assignment> & '
;+ShowCodeDetailsInExceptionMessages' '@C:\Users\ARYANS~1\AppData\Local\Temp\cp_71yh025mhbzpon7huxn8py3h6.ar
Number of rows updated: 4
PS F:\UPES\Academics\2nd Year\3rd Semester\OOPs Theory\sem3-Java-OOP\LAB\Experiment 11\JDBC_Assignment> |
```

```
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 23
Server version: 8.0.27 MySQL Community Server - GPL

Copyright (c) 2000, 2021, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use jdbcass;
Database changed
mysql> select * from employee;
+-----+-----+-----+-----+
| Name   | ID   | Email                | Number |
+-----+-----+-----+-----+
| Aryan  | 1    | ar@gmail.com         | 9876543210 |
| Arann  | 2    | arr@gmail.com        | 9876543210 |
| Aryannn | 3    | arrr@gmail.com       | 9876543210 |
| Aryannnn | 4    | arrrr@gmail.com      | 9876543210 |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql>
```

Exercise 2:

Code:

```
import java.sql.*;

public class JDBC2
{
    public static void main(String[] args)
    {
        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/jdbcass","root","
0000");

            Statement stmt = con.createStatement();
            int n = stmt.executeUpdate("create table Employee2(Name
varchar(255), ID int, Email varchar(255), Number long)");
            String Data="INSERT INTO Employee2("
+ "Name, ID, Email, Number) VALUES"
+ "('Aryan', 001, 'ar@gmail.com',9876543210), "
+ "('Arann', 002, 'arr@gmail.com',9876543211), "
+ "('Aryannn', 003, 'arrr@gmail.com',9876543212), "
+ "('Aryannnn', 004, 'arrrr@gmail.com',9876543213);";
            n = stmt.executeUpdate(Data);
            System.out.println("Number of rows updated: "+n);
            ResultSet rs = stmt.executeQuery("Select * from Employee2");
            while(rs.next())
            {
                System.out.print("Name: " + rs.getString("Name")
+ "\tID: " + rs.getInt("ID")
+ "\tE-mail: " + rs.getString("Email")
+ "\tNumber: " + rs.getLong("Number"));

                System.out.println();
            }
            con.close();
        }
        catch(Exception e)
        {
            System.out.println(e);
        }
    }
}
```

Output:

```
PS F:\UPES\Academics\2nd Year\3rd Semester\OOPs Theory\sem3-Java-OOP\LAB\Experiment 11\JDBC_Assignment> &
;+ShowCodeDetailsInExceptionMessages' '@C:\Users\ARYANS~1\AppData\Local\Temp\cp_7lyh025mhbzpon7huxn8py3h6.a
Number of rows updated: 4
Name: Aryan      ID: 1   E-mail: ar@gmail.com      Number: 9876543210
Name: Arann      ID: 2   E-mail: arr@gmail.com     Number: 9876543211
Name: Aryannnn   ID: 3   E-mail: arrr@gmail.com    Number: 9876543212
Name: Aryannnnn  ID: 4   E-mail: arrrr@gmail.com   Number: 9876543213
PS F:\UPES\Academics\2nd Year\3rd Semester\OOPs Theory\sem3-Java-OOP\LAB\Experiment 11\JDBC_Assignment> []
```

Exercise 3.i:

Code:

```
import java.sql.*;

public class JDBC3i {

    public static void main(String[] args) {
        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/jdbcass","codebind","1417");
            Statement stmt=con.createStatement();
            //boolean s = stmt.execute("create table MEETING(NameOfParticipant
varchar(255),MeetingId int,ScheduleTime varchar(255),Email varchar(255), Mobile long)");
            //boolean s = stmt.execute("insert into
MEETING(NameOfParticipant,MeetingId,ScheduleTime,Email, Mobile)
values('Priyansh',0004,'Tuesday','priyanshkamail@gmail.com',9876543214)");
            ResultSet rs = stmt.executeQuery("select*from MEETING WHERE MeetingId =
1114");
            while(rs.next())
                //System.out.println(s);
                System.out.println("Names with meetingId 1144 : " + rs.getString(1));

            con.close();
        }catch(Exception e){
            System.out.println(e);
        }
    }
}
```

Output:

```
Terminated / JDBC3i.java Application | C:\Users\visin
Names with meetingId 1144 : Riya
```

Exercise 3iv:

Code:

```
import java.sql.*;

public class JDBC3iv {

    public static void main(String[] args) {
        try{
            Class.forName("com.mysql.cj.jdbc.Driver");

            Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/jdbcass","codebind","1417");
            Statement stmt=con.createStatement();
            ResultSet rs = stmt.executeQuery("select*from MEETING WHERE ScheduleTime =
'Tuesday;");
            while(rs.next())
                System.out.println("Participants attending Tuesday meetings: " +
rs.getString(1));
            con.close();

        }catch(Exception e){
            System.out.println(e);
        }
    }
}
```

Output:

```
<terminated> JDBC3iv [Java Application] C:\Users\vishaveer\AppData\Local\Programs\Java\jdk-11.0.10\bin\java.exe
Participants attending Tuesday meetings: Sanjli
Participants attending Tuesday meetings: Priyansh
Participants attending Tuesday meetings: Riya
```

Exercise 3ii:

Code:

```
import java.sql.*;

public class JDBC3ii
{
    public static void main(String[] args)
    {
        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/jdbcass","codebind","1417");
            Statement stmt=con.createStatement();
            //boolean s = stmt.execute("Create table Partpant3(partpantId int primary key
AUTO_INCREMENT, partpantName varchar(255));");
            //boolean v = stmt.execute("insert into Partpant3(partpantName)
value('Avinash')");
            ResultSet rs = stmt.executeQuery("Select*from Partpant3");

            while(rs.next())
                System.out.println(rs.getInt(1) + " " + rs.getString(2));
            con.close();
        }
        catch(Exception e)
        {
            System.out.println(e);
        }
    }
}
```

Output:

```
<terminated> JDBC3ii [Ja
```

```
1 Aryan
2 Chirag
3 Sarvagya
4 Manika
5 Avinash
```

Exercise 3iii:

Code:

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

public class JDBC3iii
{
    public static void main(String[] args)
    {
        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/jdbcass","codebind","1417");
            Statement stmt=con.createStatement();
            ResultSet rs = stmt.executeQuery(" select COUNT(*)  from meeting Where
MeetingId = 1114");
            while(rs.next())
                System.out.println("Number of Participants with meeting id 1114 : " +
rs.getInt(1));
            con.close();
        }
        catch(Exception e)
        {
            System.out.println(e);
        }
    }
}
```

Output:

```
<terminated> JDBC3iii [Java Application] C:\Users\Vishaveer\.p2\pool\plugi
Number of Participants with meeting id 1114 : 1
```


Exercise 3iv:

Code:

```
import java.sql.*;

public class JDBC3iv {

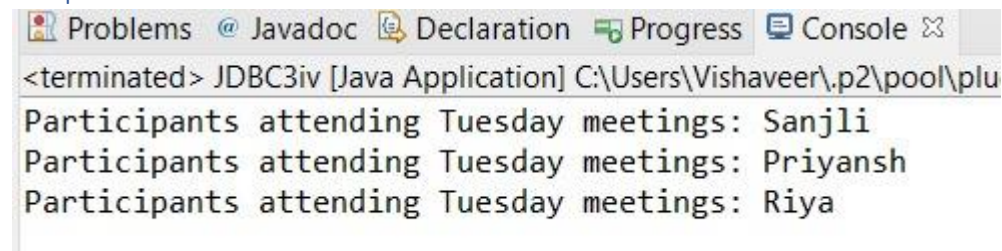
    public static void main(String[] args) {
        try{
            Class.forName("com.mysql.cj.jdbc.Driver");

            Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/jdbcass","root","
0000");

            Statement stmt=con.createStatement();
            ResultSet rs = stmt.executeQuery("select*from MEETING WHERE
ScheduleTime = 'Tuesday'");
            while(rs.next())
                System.out.println("Participants attending Tuesday meetings: "
+ rs.getString(1));
            con.close();

        }catch(Exception e){
            System.out.println(e);
        }
    }
}
```

Output:



<terminated> JDBC3iv [Java Application] C:\Users\Vishaveer\.p2\pool\plu

Participants attending Tuesday meetings: Sanjli
Participants attending Tuesday meetings: Priyansh
Participants attending Tuesday meetings: Riya