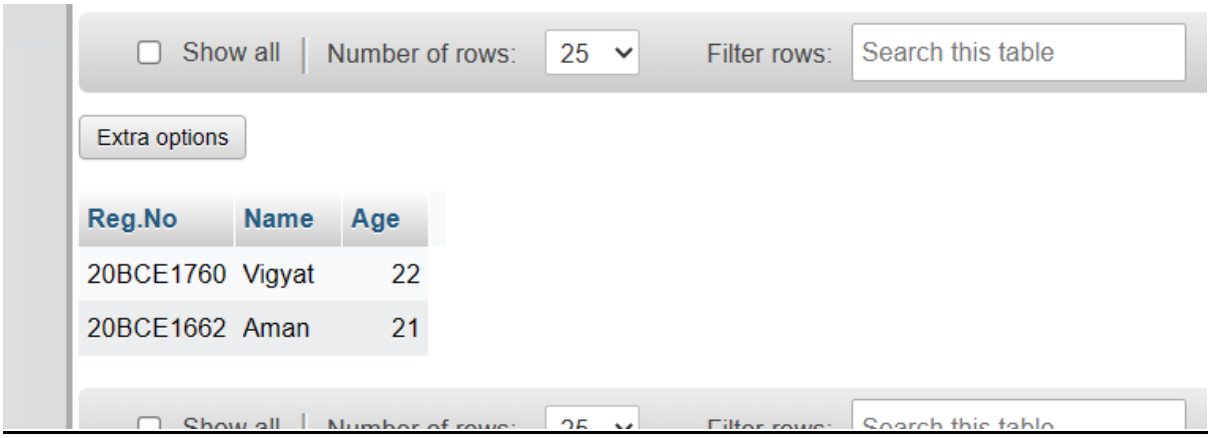
Name – Kumar Vigyat
Reg. No. – 20BCE1760

Assignment -3

Implement JDBC using Java

Database



Connecting and displaying database

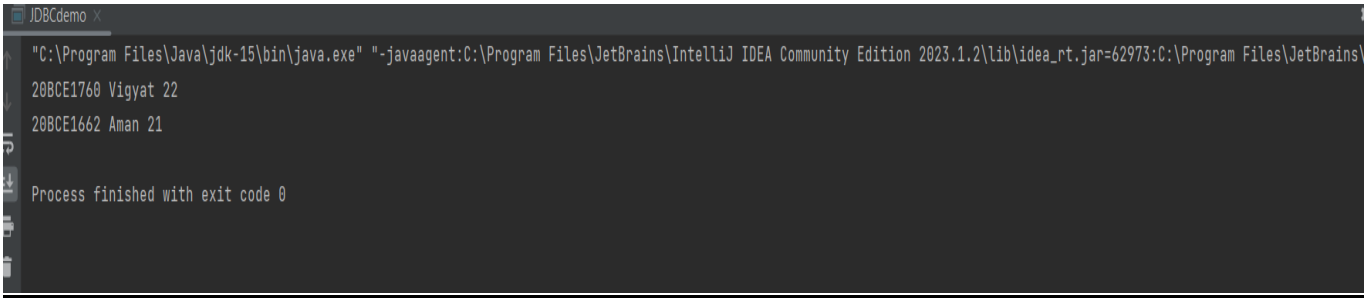
```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;

public class JDBCdemo {
    public static void main(String[] args) {

                String url="jdbc:mysql://localhost:3306/jdbcdemo";
                String username="root";
                String password="";
                try
                {
                    Class.forName("com.mysql.cj.jdbc.Driver");
                    Connection connection=
DriverManager.getConnection(url,username,password);
                    Statement statement=connection.createStatement();
                    ResultSet resultSet = statement.executeQuery("select * from
student");
                    while (resultSet.next()) {
                        System.out.println(resultSet.getString(1) + " " +
resultSet.getString(2) + " " + resultSet.getInt(3));
                    }
                        connection.close();
                }
                catch(Exception e)
                {
                    System.out.println(e);
                }
```

```
        }
    }
```

Output



Inserting data into the database

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

public class JDBCdemo {
    public static void main(String[] args) {

                String url="jdbc:mysql://localhost:3306/jdbcdemo";
                String username="root";
                String password="";
                try
                {
                    Class.forName("com.mysql.cj.jdbc.Driver");
                    Connection connection=
DriverManager.getConnection(url,username,password);
                    Statement statement=connection.createStatement();
                    String sql="INSERT INTO STUDENT "+"VALUES
('20BCE1374','Priyansh',23)";
                    statement.executeUpdate(sql);
                    ResultSet resultSet = statement.executeQuery("select * from
student");
                    while (resultSet.next()) {
                        System.out.println(resultSet.getString(1) + " " +
resultSet.getString(2) + " " + resultSet.getInt(3));
                    }
                        connection.close();
                }
                catch(Exception e)
                {
                    System.out.println(e);
                }
            }
        }
```

Output

```
"C:\Program Files\Java\jdk-15\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.1.2\lib\idea_rt.jar=64916:C:\Program Files\JetBr
20BCE1760 Vigyat 22
20BCE1662 Aman 21
20BCE1374 Priyansh 23

Process finished with exit code 0
```

Updating the Database

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

public class JDBCdemo {
    public static void main(String[] args) {

                String url="jdbc:mysql://localhost:3306/jdbcdemo";
                String username="root";
                String password="";
                try
                {
                    Class.forName("com.mysql.cj.jdbc.Driver");
                    Connection connection=
DriverManager.getConnection(url,username,password);
                    Statement statement=connection.createStatement();
                    String sql="UPDATE STUDENT "+"SET AGE =30 WHERE Name IN
('Aman','Priyansh')";
                    statement.executeUpdate(sql);
                    ResultSet resultSet = statement.executeQuery("select * from
student");
                    while (resultSet.next()) {
                        System.out.println(resultSet.getString(1) + " " +
resultSet.getString(2) + " " + resultSet.getInt(3));
                    }
                        connection.close();
                }
                catch(Exception e)
                {
                    System.out.println(e);
                }
            }
        }
```

Output

```
"C:\Program Files\Java\jdk-15\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.1.2\lib\idea_rt.jar=51416
20BCE1760 Vigyat 22
20BCE1662 Aman 30
20BCE1374 Priyansh 30

Process finished with exit code 0
```

Deleting the data from database

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

public class JDBCdemo {
    public static void main(String[] args) {

                String url="jdbc:mysql://localhost:3306/jdbcdemo";
                String username="root";
                String password="";
                try
                {
                    Class.forName("com.mysql.cj.jdbc.Driver");
                    Connection connection=
DriverManager.getConnection(url,username,password);
                    Statement statement=connection.createStatement();
                    String sql="DELETE FROM STUDENT "+"WHERE RegNo = '20BCE1760'";
                    statement.executeUpdate(sql);
                    ResultSet resultSet = statement.executeQuery("select * from
student");
                    while (resultSet.next()) {
                        System.out.println(resultSet.getString(1) + " " +
resultSet.getString(2) + " " + resultSet.getInt(3));
                    }
                        connection.close();
                }
                catch(Exception e)
                {
                    System.out.println(e);
                }
            }
        }
```

Output

```
"C:\Program Files\Java\jdk-15\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023
20BCE1662 Aman 30
20BCE1374 Priyansh 30

Process finished with exit code 0
```