

1. Download Java MySQL Connector 'mysql-connector-java-5.1.34-bin.jar' and keep it on the desktop

2. Create a Java project in Eclipse IDE

- Open Eclipse IDE. Create a new Java Project and name it as "mydbproj".

3. Configure JDBC driver in Eclipse IDE

- You need to add the downloaded Java MySQL Connector JAR in client project's classpath. To do this, right click on your Java Project (mydbproj) -> Properties -> Buildpath -> Libraries -> Add External JAR and select "mysql-connector-java-5.1.34-bin.jar" JAR file.

4. Set up a simple database program

```
import java.sql.*;
public class JdbcExample {

    public static void main(String args[]) {
        Connection con = null;
        try {
            Class.forName("com.mysql.jdbc.Driver").newInstance();
            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/mydb",
"root", "");
            if (!con.isClosed())
                System.out.println("Successfully connected to MySQL server...");
        } catch (Exception e) {
            System.err.println("Exception: " + e.getMessage());
        } finally {
            try {
                if (con != null)
                    con.close();
            } catch (SQLException e) {}
        }
    }
}
```

5. Run the program -> click on Java file -> RunAs-> Java Application. You will get the following output.

Successfully connected to MySQL server...

## 2. Program to display the contents of mysql table

```
import java.sql.*;
public class mysql_demo{
    public static void main(String[] args) {
        System.out.println("MySQL Connect Example.");
        Connection conn = null;
        String url = "jdbc:mysql://localhost:3306/";
        String dbName = "mydb";
        String driver = "com.mysql.jdbc.Driver";
        String userName = "root";
        String password = "";
        String f1,f2;
        try {
            Class.forName(driver).newInstance();
            conn = DriverManager.getConnection(url+dbName,userName,password);
            String query = "Select * FROM stud";
            System.out.println("Connected to the database");
            Statement stmt = conn.createStatement();
            ResultSet rs = stmt.executeQuery(query);

            while (rs.next())
            {
                f1 = rs.getString(1);
                f2 = rs.getString(2);
                System.out.println(f1+" "+f2);

            } //end while
            conn.close();
            System.out.println("Disconnected from database");
        } //end try

        catch(ClassNotFoundException e) {
            e.printStackTrace();
        }

        catch(SQLException e) {
            e.printStackTrace();
        }

        catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

### 3. Program to insert data into the table and display the contents.

```
import java.sql.*;
import java.io.*;
class JDBC_prepared_ins_ex{
public static void main(String args[])throws Exception{
    System.out.println("MySQL Connect Example.");
    Connection conn = null;
    String url = "jdbc:mysql://localhost:3306/";
    String dbName = "mydb";
    String driver = "com.mysql.jdbc.Driver";
    String userName = "root";
    String password = "";
    Class.forName(driver).newInstance();
    conn = DriverManager.getConnection(url+dbName,userName,password);
    System.out.println("Connected to the database");
    String myusn,myname;
    PreparedStatement ps=conn.prepareStatement("insert into stud
values(?,?)");
    Statement stmt = conn.createStatement();
    BufferedReader br=new BufferedReader(new InputStreamReader(System.in));

    do{
        //int id=Integer.parseInt(br.readLine());
        //float salary=Float.parseFloat(br.readLine());
        //ps.setFloat(2, salary);
        System.out.println("enter usn:");
        myusn=br.readLine();
        System.out.println("enter name:");
        myname=br.readLine();

        ps.setString(1,myusn);
        ps.setString(2,myname);

        int i=ps.executeUpdate();
        System.out.println(i+" records added");
        System.out.println("Do you want to continue: y/n");
        String s=br.readLine();
        if(s.startsWith("n")){
            break;
        }
    }while(true);
    String sql = "SELECT * from stud";
    ResultSet rs = stmt.executeQuery(sql);
    System.out.println("The records are :");
    while (rs.next())
    {
        myusn = rs.getString(1);
        myname=rs.getString(2);

        System.out.println(rs.getRow()+"-"+myusn+" "+myname);
    }
}
```

```
        } //end while  
conn.close();  
}}
```