接口

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| **public** **interface** JDBCport {    **public** **void** insertuser(User user);    } |

接口实现类

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| **public** **class** UserinsertImpl **implements** JDBCport {      **private** Connection conn;  **public** Connection getConn() {  **return** conn;  }  **public** **void** setConn(Connection conn) {  **this**.conn = conn;  }  @Override  **public** **void** insertuser(User user) {  String sql = "insert into mj\_user(user\_id,username,password,gender,address,birthday) values(null,?,?,?,?,?)";    **try** {  PreparedStatement ps =conn.prepareStatement(sql);  ps = conn.prepareStatement(sql);  ps.setString(1, user.getUsername());  ps.setString(2, user.getPassword());  ps.setInt(3, user.getGender());  ps.setString(4, user.getAddress());  ps.setDate(5, **new** java.sql.Date(user.getBirthday().getTime()));  ps.executeUpdate();  }**catch**(Exception e){  e.printStackTrace();  }  }  } |

代理

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| **public** **class** UserAgency **implements** InvocationHandler {      **private** Object obj;          **public** UserAgency(Object obj) {  **super**();  **this**.obj = obj;  }  @Override  **public** Object invoke(Object proxy, Method method, Object[] args)  **throws** Throwable {  String driverClass="com.mysql.jdbc.Driver";  String url="jdbc:mysql://192.168.42.71:3306/mj\_db";  String username="root";  String password="hmj";  Class.*forName*(driverClass);  Connection conn=DriverManager.*getConnection*(url, username, password);  System.*out*.println("加载驱动");  //获取传递过来的类的类属性  Field field = obj.getClass().getDeclaredField("conn");  //获得属性名  String fname = field.getName();  //获得属性类型  Class<?> type = field.getType();  // 根据属性名字获得get方法  String setmethodName = "set" + fname.substring(0, 1).toUpperCase()  + fname.substring(1);  System.*out*.println(setmethodName);  //根据方法名获得方法  Method method2 = obj.getClass().getDeclaredMethod(setmethodName,  **new** Class[] { type });  //通过方法赋值给传递过来的类  method2.invoke(obj, **new** Object[] { conn });  //代理方法  Object invoke = method.invoke(obj, args);  System.*out*.println("关闭资源");  **if**(conn!=**null**){  conn.close();  }    **return** invoke;  }  } |

调用

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| **public** **static** **void** main(String[] args) {  User u=**new** User();  u.setAddress("地球");  u.setGender(1);  u.setUsername("张三");  u.setBirthday(**new** Date());  u.setPassword("1234");  //创建代理对象  UserinsertImpl user=**new** UserinsertImpl();  JDBCport jd= (JDBCport) Proxy.*newProxyInstance*(user.getClass().getClassLoader(), user.getClass().getInterfaces(), **new** UserAgency(user));  jd.insertuser(u);  }  } |