My Open Source Projects: How to use

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```
CREATE TABLE CUSTOMER (
        FIRST_NAME VARCHAR(30) NOT NULL,
       LAST NAME VARCHAR(30) NOT NULL,
        ID INTEGER NOT NULL CONSTRAINT EMP_NO_PK PRIMARY KEY
public class Customer {
       private String firstName;
       private String lastName;
       private int id;
        public final String getFirstName() {
               return firstName;
       public final void setFirstName(String firstName) {
                this.firstName = firstName;
        public final String getLastName() {
                return lastName;
        public final void setLastName(String lastName) {
               this.lastName = lastName;
       public final int getId() {
               return id;
        public final void setId(int id) {
                this.id = id;
}
public class CustomerBeanInfo extends AbstractManagedBeanInfo<Customer> {
        public CustomerBeanInfo() {
                setBeanClass(Customer.class);
       public BeanDescriptor getBeanDescriptor() {
               return new BeanDescriptorEntity(getBeanClass())
                        .setEntityName("Customer");
        public PropertyDescriptor[] getPropertyDescriptors() {
               try {
                        return new PropertyDescriptor[] {
                                        new PropertyDescriptorPK("id", getBeanClass(), "getId",
"setId" ),
                                        new PropertyDescriptorField("firstName",
getBeanClass(), "getFirstName", "setFirstName" )
                                                 .setFieldName("FIRST_NAME"),
                                        new PropertyDescriptorField("lastName", getBeanClass(),
"getLastName", "setLastName" )
                                                .setFieldName("LAST_NAME"),
                } catch (IntrospectionException e) {
                        e.printStackTrace();
                return EMPTY_PROPERTYDESCRIPTOR;
        }
```

}

```
public class TestCustomerManager {
        private Connection conn = null;
        private BeanManager<Customer> manager = null;
        @BeforeClass
        public static void loadDriver() throws Exception {
            String driver = "org.apache.derby.jdbc.EmbeddedDriver";
            Class.forName(driver);
           LogManager.getLogManager().readConfiguration(
TestBeanManager.class.getResourceAsStream("/logging.properties"));
        @Before
        @SuppressWarnings("unchecked")
        public void connect() throws SQLException {
            String connectionURL = "jdbc:derby:./target/DerbyDB/testDB";
            Properties p = new Properties();
            p.setProperty("create", "true");
            conn = DriverManager.getConnection(connectionURL, p);
           manager = (BeanManager<Customer>)
BeanManagerFactory.getFactory().createBeanManager(Customer.class);
        @After
        public void disconnect() throws SQLException {
                manager = null;
                if( null!=conn ) {
                        conn.close();
        }
        @Test
        public void createBean() throws SQLException {
                Customer bean = new Customer();
                bean.setId(1);
                bean.setFirstName("name1");
                bean.setLastName("sname1");
                manager.create(conn, bean);
        }
        @Test
        public void findBeanById() throws SQLException {
                Customer bean = manager.findById(conn, 1);
                Assert.assertNotNull("Customer retreived is null", bean );
                Assert.assertEquals( "Customer.id doesn't match", bean.getId(), 1 );
        }
        @Test
        public void updateBeanInclude() throws SQLException {
                Customer bean = new Customer();
                bean.setId(1);
                bean.setFirstName("bartolomeo");
```

```
manager.store(conn, bean, true, "firstName");
                   bean = manager.findById(conn, 1);
                   Assert.assertNotNull("Customer retreived is null", bean );
Assert.assertEquals( "Customer.id doesn't match", bean.getId(), 1 );
Assert.assertEquals( "Customer.firstName doesn't match", bean.getFirstName(),
"bartolomeo" );
          }
         @Test
         public void updateBeanExclude() throws SQLException {
                   Customer bean = new Customer();
                   bean.setId(1);
                   bean.setLastName("sorrentino");
                   manager.store(conn, bean, false, "firstName");
                   bean = manager.findById(conn, 1);
                   Assert.assertNotNull("Customer retreived is null", bean );
Assert.assertEquals( "Customer.id doesn't match", bean.getId(), 1 );
Assert.assertEquals( "Customer.lastName doesn't match", bean.getLastName(),
"sorrentino" );
          }
         @Test
         public void updateBean() throws SQLException {
                   Customer bean = manager.findById(conn, 1);
                   Assert.assertNotNull("Customer retreived is null", bean );
                   Assert.assertEquals( "Customer.id doesn't match", bean.getId(), 1 );
                   bean.setFirstName("bartolo");
                   manager.store(conn, bean);
                   bean = manager.findById(conn, 1);
                   Assert.assertNotNull("Customer retreived is null", bean );
Assert.assertEquals( "Customer.id doesn't match", bean.getId(), 1 );
                   Assert.assertEquals( "Customer.firstName doesn't match", bean.getFirstName(),
"bartolo" );
          }
         @Test
         public void findBeans() throws SQLException {
                   List<Customer> customers = new ArrayList<Customer>();
                   manager.find(conn, customers, "${firstName} LIKE ? OR ${lastName}=? ORDER BY
#{lastName}", "b%", "sorrentino");
                   for( Customer c: customers ) {
                              System.out.printf( "Customer name=%s, surname=%s, id=%d\n",
c.getFirstName(), c.getLastName(), c.getId());
          }
         @Test
         public void removeBean() throws SQLException {
                   manager.removeById(conn, 1);
          }
```

}