

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer

- hibernateCRUDOperationsMavenProject
- src/main/java
 - com.kiet.jtd
 - Faculty.java
 - FacultyCRUDOperations.java
 - HQCDemo.java
 - src/test/java
 - inheritanceemping
 - src/main/resources
 - hibernate.cfg.xml
 - lib
 - IRE System Library [nuase-1.0]
 - Maven Dependencies
 - src
 - target
 - pom.xml

```
14 //demo.viewallFaculty();
15 //demo.viewallFacultyPartialObject();
16 //demo.AggregateFunctions();
17 demo.updatedeletepositionalparamater();
```

Problems Javadoc Declaration Console Properties

<terminated> HQCDemo [Java Application] C:\Program Files\Java\jdk-11.0.14\bin\java.exe (14-Aug-2022, 12:21:35 PM [pid: 17544])

```
Aug 14, 2022 12:21:36 PM org.hibernate.engine.jdbc.connections.internal.Driver
INFO: HHH10001003: Autocommit mode: false
Aug 14, 2022 12:21:36 PM org.hibernate.engine.jdbc.connections.internal.Driver
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Aug 14, 2022 12:21:36 PM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQL5Dialect
Aug 14, 2022 12:21:37 PM org.hibernate.resource.transaction.backend.jdbc.inte
INFO: HHH10001501: Connection obtained from JdbcConnectionAccess [org.hibernat
Hibernate: alter table student_table add constraint FKrq0k3q93bnumyakrikequgg
Hibernate: alter table teacher_table add constraint FKjruefu8nph03b9yjjctxsqrc
Aug 14, 2022 12:21:37 PM org.hibernate.engine.transaction.jta.platform.inte
INFO: HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.trans
Hibernate: update faculty_table set faculty_name=?, faculty_salary=? where fac
1 records updated successfully
Hibernate: delete from faculty_table where faculty_id=?
0 Records(s) Deleted Successfully
Aug 14, 2022 12:21:37 PM org.hibernate.engine.jdbc.connections.internal.Driver
INFO: HHH10001008: Cleaning up connection pool [jdbc:mysql://localhost:3306/jt
```

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer

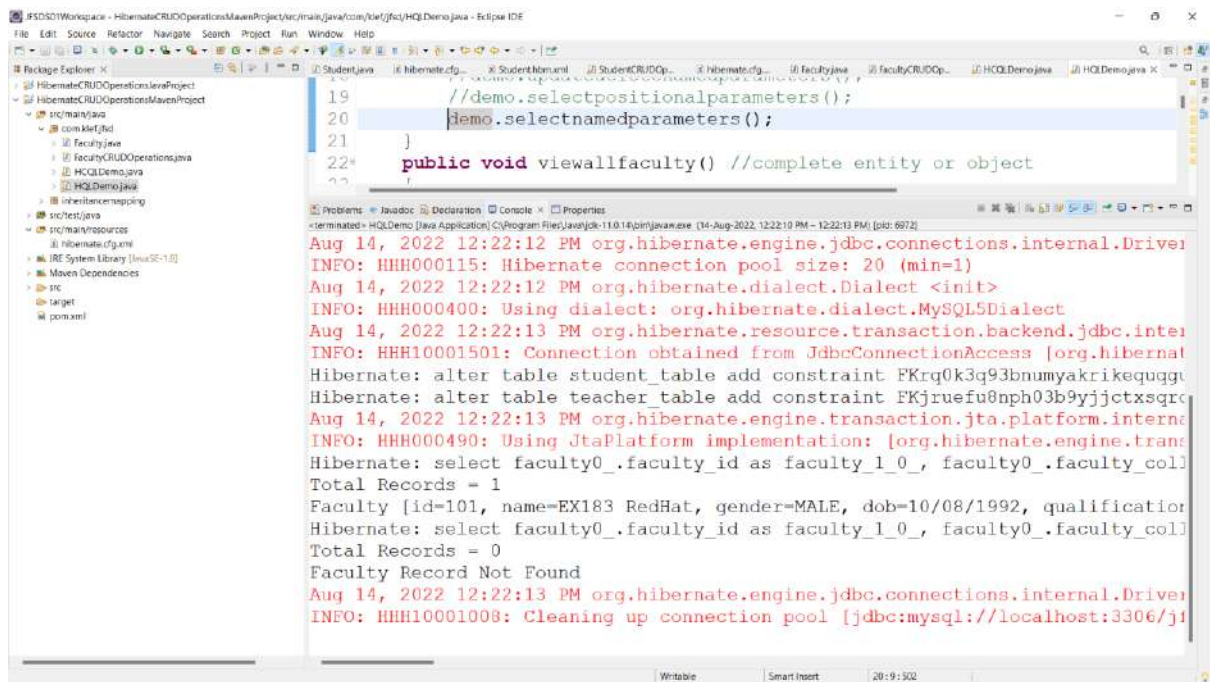
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 - src
 - target
 - pom.xml

```
15 //demo.viewallFacultyPartialObject();
16 //demo.AggregateFunctions();
17 //demo.updatedeletepositionalparamater();
18 demo.updatedeleteparameters();
19 //demo.selectpositionalparameters();
```

Problems Javadoc Declaration Console Properties

<terminated> HQCDemo [Java Application] C:\Program Files\Java\jdk-11.0.14\bin\java.exe (14-Aug-2022, 12:21:52 PM [pid: 12748])

```
Aug 14, 2022 12:21:51 PM org.hibernate.engine.jdbc.connections.internal.Driver
INFO: HHH10001003: Autocommit mode: false
Aug 14, 2022 12:21:51 PM org.hibernate.engine.jdbc.connections.internal.Driver
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Aug 14, 2022 12:21:52 PM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQL5Dialect
Aug 14, 2022 12:21:52 PM org.hibernate.resource.transaction.backend.jdbc.inte
INFO: HHH10001501: Connection obtained from JdbcConnectionAccess [org.hibernat
Hibernate: alter table student_table add constraint FKrq0k3q93bnumyakrikequgg
Hibernate: alter table teacher_table add constraint FKjruefu8nph03b9yjjctxsqrc
Aug 14, 2022 12:21:52 PM org.hibernate.engine.transaction.jta.platform.inte
INFO: HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.trans
Hibernate: update faculty_table set faculty_salary=?, faculty_name=? where fac
1 records updated successfully
Hibernate: delete from faculty_table where faculty_id=?
0 Records(s) Deleted Successfully
Aug 14, 2022 12:21:52 PM org.hibernate.engine.jdbc.connections.internal.Driver
INFO: HHH10001008: Cleaning up connection pool [jdbc:mysql://localhost:3306/jt
```



HCQLDemo.java

```
1 package com.klef.jfsd;
2
3 import org.hibernate.*;
4
5
6
7
8
9
10 public class HCQLEDemo
11 {
12     public static void main(String[] args)
13     {
14         HCQLEDemo demo=new HCQLEDemo();
15         //demo.RestrictionsDemo();
16         //demo.ProjectionsWithAggregateFunctions();
17         //demo.projectswithproperties();
18         //demo.OrderDemo();
19         //demo.HCQLConditions();
20         demo.HCQLall();
21     }
22     public void RestrictionsDemo()
23     {
24         Configuration configuration=new Configuration();
25         configuration.configure("hibernate.cfg.xml");
26
27         SessionFactory sessionFactory=configuration.buildSessionFactory();
28         Session session=sessionFactory.openSession();
29
30         Criteria c1=session.createCriteria(Faculty.class);
```

```
30         Criteria c1=session.createCriteria(Faculty.class);
31         //c1.add(Restrictions.eq("id", 101)); //eq(id,101) is id=101
32         c1.add(Restrictions.eq("name", "RAMA"));
33         List<Faculty> facultylist1=c1.list();
34         System.out.println("Total Records= " +facultylist1.size());
35         if(facultylist1.size()>=1)
36         {
37             System.out.println("Faculty Data Found");
38             for(Faculty faculty:facultylist1)
39             {
40                 System.out.println(faculty);
41             }
42         }
43
44
45
46         else
47         {
48             System.out.println("Faculty Data Not Found");
49         }
50         Criteria c2=session.createCriteria(Faculty.class);
51         c2.add(Restrictions.lt("salary", 80000.00)); //eq(id,101) is id=101
52         List<Faculty> facultylist2=c2.list();
53         System.out.println("Total Records= " +facultylist2.size());
54         if(facultylist2.size()>=1)
55         {
56             System.out.println("Faculty Data Found");
```



```
53 System.out.println("Total Records= " +facultylist2.size());
54 if(facultylist2.size()>=1)
55 {
56     System.out.println("Faculty Data Found");
57     for(Faculty faculty:facultylist2)
58     {
59         System.out.println(faculty);
60     }
61 }
62 else
63 {
64     System.out.println("Faculty Data Not Found");
65 }
66 Criteria c3=session.createCriteria(Faculty.class);
67 c3.add(Restrictions.gt("salary", 30000.00));
68 List<Faculty> facultylist3=c3.list();
69 if(facultylist3.size()>=1)
70 {
71     System.out.println("Faculty Data Found");
72     for(Faculty faculty:facultylist3)
73     {
74         System.out.println(faculty);
75     }
76 }
77 else
78 {
```

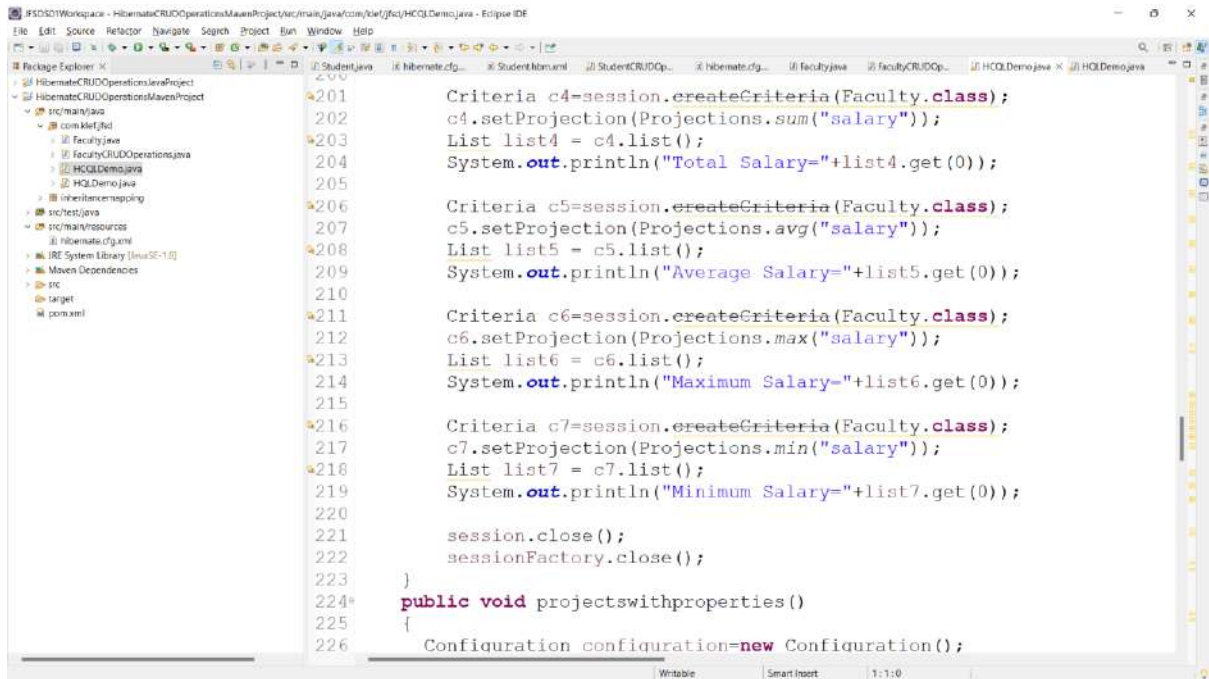
```
75 }
76 }
77 else
78 {
79     System.out.println("Faculty Data Not Found");
80 }
81 Criteria c4=session.createCriteria(Faculty.class);
82 c3.add(Restrictions.le("salary", 30000.00));
83 List<Faculty> facultylist4=c4.list();
84 if(facultylist4.size()>=1)
85 {
86     System.out.println("Faculty Data Found");
87     for(Faculty faculty:facultylist4)
88     {
89         System.out.println(faculty);
90     }
91 }
92 else
93 {
94     System.out.println("Faculty Data Not Found");
95 }
96 Criteria c5=session.createCriteria(Faculty.class);
97 c5.add(Restrictions.ge("salary", 30000.00));
98 List<Faculty> facultylist5=c5.list();
99 if(facultylist5.size()>=1)
100 {
101     System.out.println("Faculty Data Found");
```

```
#SOS21Workspace - HibernateCRUDOperationsMavenProject/src/main/java/com/klef/fac/HQCLDemo.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
  HibernateCRUDOperationsMavenProject
    src/main/java
      com.klef.fhd
        Faculty.java
        FacultyCRUDOperations.java
        HQCLDemo.java
        InheritanceMapping
      src/test/java
        InheritanceMapping
      src/main/resources
        hibernate.cfg.xml
      lib
        JRE System Library [JDK1.8.0_101]
        Maven Dependencies
      src
      target
      pom.xml
Student.java
hibernate.cfg.xml
StudentInherit...
StudentCRUDOp...
hibernate.cfg...
Faculty.java
FacultyCRUDOp...
HQCLDemo.java
HQCLDemo.java
97      c5.add(Restrictions.ge("salary", 30000.00));
98      List<Faculty> facultylist5=c5.list();
99      if(facultylist5.size()>=1)
100      {
101          System.out.println("Faculty Data Found");
102          for(Faculty faculty:facultylist5)
103          {
104              System.out.println(faculty);
105          }
106      }
107      else
108      {
109          System.out.println("Faculty Data Not Found");
110      }
111      Criteria c6=session.createCriteria(Faculty.class);
112      c6.add(Restrictions.between("salary", 30000.00,50000.00));
113      List<Faculty> facultylist6=c6.list();
114      if(facultylist6.size()>=1)
115      {
116          System.out.println("Faculty Data Found");
117          for(Faculty faculty:facultylist6)
118          {
119              System.out.println(faculty);
120          }
121      }
122      else
```

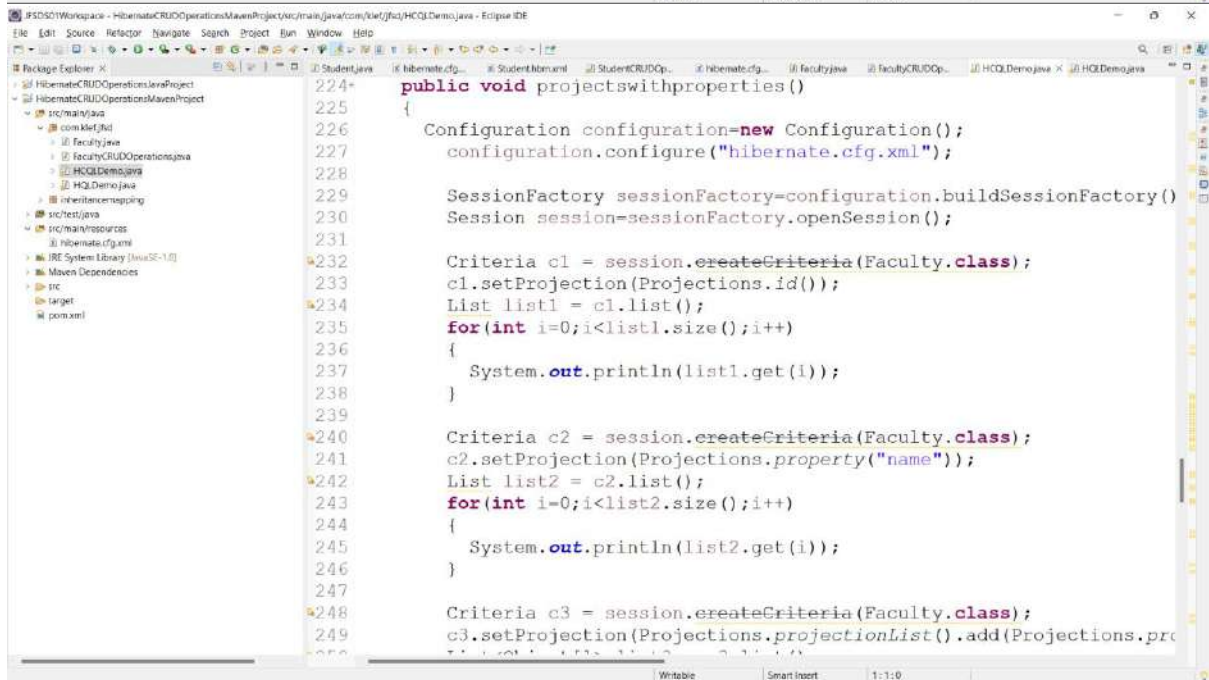
```
#SOS21Workspace - HibernateCRUDOperationsMavenProject/src/main/java/com/klef/fac/HQCLDemo.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
  HibernateCRUDOperationsMavenProject
    src/main/java
      com.klef.fhd
        Faculty.java
        FacultyCRUDOperations.java
        HQCLDemo.java
        InheritanceMapping
      src/test/java
        InheritanceMapping
      src/main/resources
        hibernate.cfg.xml
      lib
        JRE System Library [JDK1.8.0_101]
        Maven Dependencies
      src
      target
      pom.xml
Student.java
hibernate.cfg.xml
StudentInherit...
StudentCRUDOp...
hibernate.cfg...
Faculty.java
FacultyCRUDOp...
HQCLDemo.java
HQCLDemo.java
120      }
121      }
122      else
123      {
124          System.out.println("Faculty Data Not Found");
125      }
126      Criteria c7=session.createCriteria(Faculty.class);
127      c7.add(Restrictions.ne("salary", 30000.00));
128      List<Faculty> facultylist7=c7.list();
129      if(facultylist7.size()>=1)
130      {
131          System.out.println("Faculty Data Found");
132          for(Faculty faculty:facultylist7)
133          {
134              System.out.println(faculty);
135          }
136      }
137      else
138      {
139          System.out.println("Faculty Data Not Found");
140      }
141      Criteria c10=session.createCriteria(Faculty.class);
142      // c10.add(Restrictions.in("id", new Integer[] {101,102,103}));
143      c10.add(Restrictions.in("name", new String[] {"Rama","klu","klef"});
144      List<Faculty> facultylist10=c10.list();
145      if(facultylist10.size()>=1)
```

```
146 {
147     System.out.println("Faculty Data Found");
148     for(Faculty faculty:facultylist10)
149     {
150         System.out.println(faculty);
151     }
152 }
153 else
154 {
155     System.out.println("Faculty Data Not Found");
156 }
157 Criteria c1=session.createCriteria(Faculty.class);
158 // c1.add(Restrictions.like("name", "%R%"));
159 // c1.add(Restrictions.like("name", "%_"));
160 c1.add(Restrictions.like("name", "S%"));
161 List<Faculty> facultylist11=c1.list();
162 if(facultylist11.size()>=1)
163 {
164     System.out.println("Faculty Data Found");
165     for(Faculty faculty:facultylist11)
166     {
167         System.out.println(faculty);
168     }
169 }
170 else
171 {
```

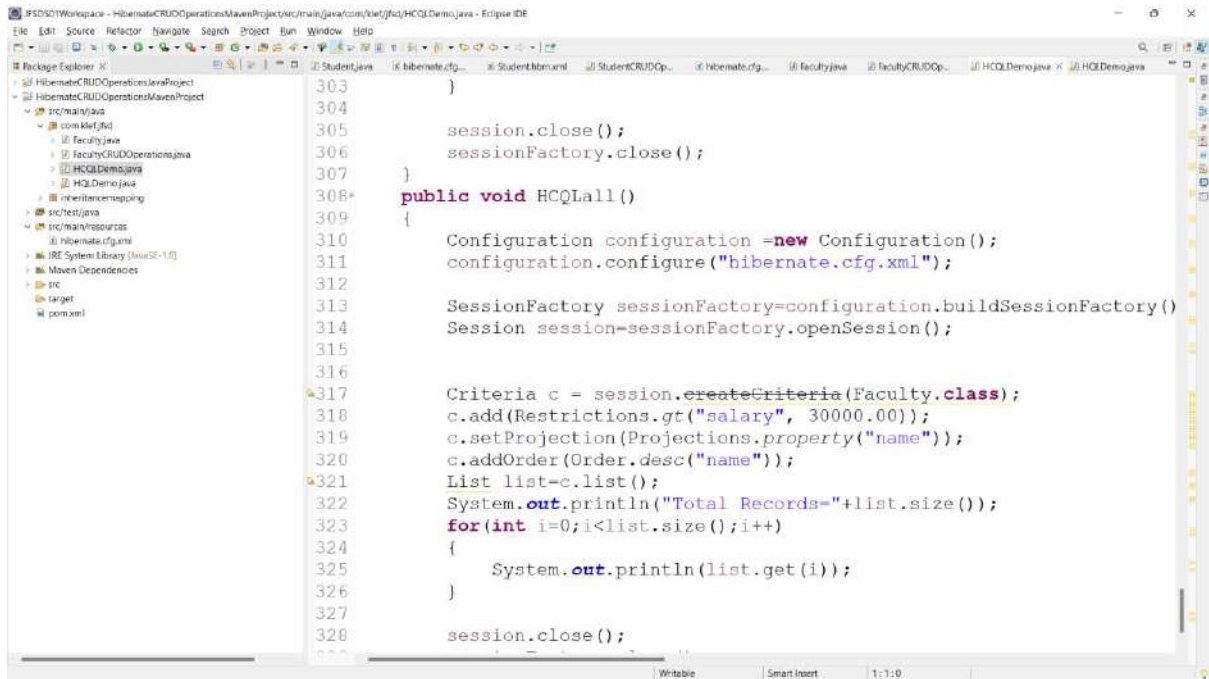
```
177 }
178 public void ProjectionswithAggregateFunctions()
179 {
180     Configuration configuration=new Configuration();
181     configuration.configure("hibernate.cfg.xml");
182
183     SessionFactory sessionFactory=configuration.buildSessionFactory();
184     Session session=sessionFactory.openSession();
185
186     Criteria c1=session.createCriteria(Faculty.class);
187     c1.setProjection(Projections.rowCount());
188     List list1 = c1.list();
189     System.out.println("Total Records Count="+list1.get(0));
190
191     Criteria c2=session.createCriteria(Faculty.class);
192     c2.setProjection(Projections.count("salary"));
193     List list2 = c2.list();
194     System.out.println("Total Records Count="+list2.get(0));
195
196     Criteria c3=session.createCriteria(Faculty.class);
197     c3.setProjection(Projections.countDistinct("gender"));
198     List list3 = c3.list();
199     System.out.println("Distinct Count="+list3.get(0));
200
201     Criteria c4=session.createCriteria(Faculty.class);
202     c4.setProjection(Projections.sum("salary"));
```



```
201 Criteria c4=session.createCriteria(Faculty.class);
202 c4.setProjection(Projections.sum("salary"));
203 List list4 = c4.list();
204 System.out.println("Total Salary="+list4.get(0));
205
206 Criteria c5=session.createCriteria(Faculty.class);
207 c5.setProjection(Projections.avg("salary"));
208 List list5 = c5.list();
209 System.out.println("Average Salary="+list5.get(0));
210
211 Criteria c6=session.createCriteria(Faculty.class);
212 c6.setProjection(Projections.max("salary"));
213 List list6 = c6.list();
214 System.out.println("Maximum Salary="+list6.get(0));
215
216 Criteria c7=session.createCriteria(Faculty.class);
217 c7.setProjection(Projections.min("salary"));
218 List list7 = c7.list();
219 System.out.println("Minimum Salary="+list7.get(0));
220
221 session.close();
222 sessionFactory.close();
223
224 public void projectswithproperties()
225 {
226     Configuration configuration=new Configuration();
```

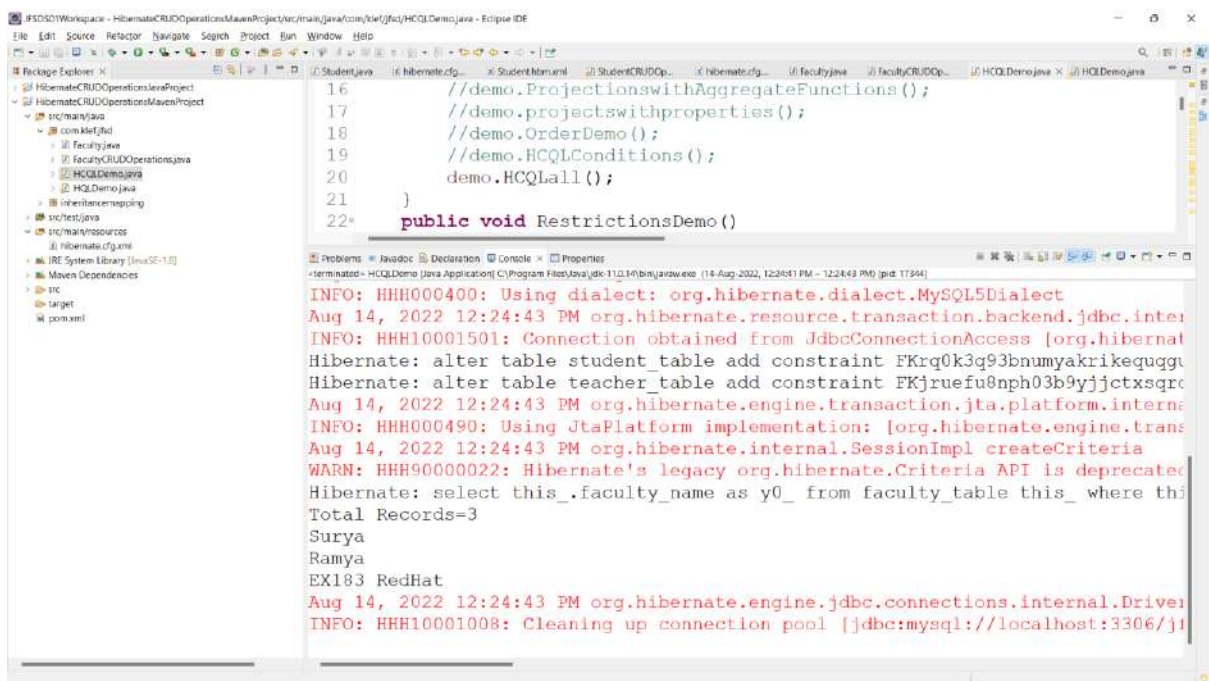


```
224 public void projectswithproperties()
225 {
226     Configuration configuration=new Configuration();
227     configuration.configure("hibernate.cfg.xml");
228
229     SessionFactory sessionFactory=sessionFactory.buildSessionFactory();
230     Session session=sessionFactory.openSession();
231
232     Criteria c1 = session.createCriteria(Faculty.class);
233     c1.setProjection(Projections.id());
234     List list1 = c1.list();
235     for(int i=0;i<list1.size();i++)
236     {
237         System.out.println(list1.get(i));
238     }
239
240     Criteria c2 = session.createCriteria(Faculty.class);
241     c2.setProjection(Projections.property("name"));
242     List list2 = c2.list();
243     for(int i=0;i<list2.size();i++)
244     {
245         System.out.println(list2.get(i));
246     }
247
248     Criteria c3 = session.createCriteria(Faculty.class);
249     c3.setProjection(Projections.projectionList().add(Projections.pro
```

```
303    }
304
305    session.close();
306    sessionFactory.close();
307  }
308  public void HCQLall()
309  {
310    Configuration configuration =new Configuration();
311    configuration.configure("hibernate.cfg.xml");
312
313    SessionFactory sessionFactory=sessionFactory.buildSessionFactory()
314    Session session=sessionFactory.openSession();
315
316
317    Criteria c = session.createCriteria(Faculty.class);
318    c.add(Restrictions.gt("salary", 30000.00));
319    c.setProjection(Projections.property("name"));
320    c.addOrder(Order.desc("name"));
321    List list=c.list();
322    System.out.println("Total Records="+list.size());
323    for(int i=0;i<list.size();i++)
324    {
325      System.out.println(list.get(i));
326    }
327
328    session.close();
329  }
```

OUTPUT:



```
16    //demo.ProjectionsWithAggregateFunctions();
17    //demo.projectswithproperties();
18    //demo.OrderDemo();
19    //demo.HCQLConditions();
20    demo.HCQLall();
21  }
22  public void RestrictionsDemo()
```

INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQL5Dialect
Aug 14, 2022 12:24:43 PM org.hibernate.resource.transaction.backend.jdbc.inte
INFO: HHH10001501: Connection obtained from JdbcConnectionAccess [org.hibernat
Hibernate: alter table student_table add constraint FKrq0k3q93bnmyakrikequgq
Hibernate: alter table teacher_table add constraint FKjruefu8nph03b9yjjctxsqro
Aug 14, 2022 12:24:43 PM org.hibernate.engine.transaction.jta.platform.intern
INFO: HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.trans
Aug 14, 2022 12:24:43 PM org.hibernate.internal.SessionImpl createCriteria
WARN: HHH90000022: Hibernate's legacy org.hibernate.Criteria API is deprecated
Hibernate: select this_.faculty_name as y0_ from faculty_table this_ where thi
Total Records=3
Surya
Ramya
EX183 RedHat
Aug 14, 2022 12:24:43 PM org.hibernate.engine.jdbc.connections.internal.Drive
INFO: HHH10001008: Cleaning up connection pool [jdbc:mysql://localhost:3306/j

```
10 public class HCQLDemo
11 {
12     public static void main(String[] args)
13     {
14         HCQLDemo demo=new HCQLDemo();
15         demo.RestrictionsDemo();
16         //demo.ProjectionsWithAggregateFunctions();
    }
```

Problems: Javadoc Declaration Console Properties
terminated: HCQLDemo (Java Application) [C:\Program Files\Java\jdk-11.0.10\bin\javaw.exe (14-Aug-2022, 12:25:15 PM - 12:25:19 PM) (pid: 11868)]

Hibernate: select this_.faculty_id as faculty_1_0_0_, this_.faculty_college as Faculty Data Found
Faculty [id=101, name=EX183 RedHat, gender=MALE, dob=10/08/1992, qualification=Faculty [id=102, name=Surya, gender=MALE, dob=10/11/1993, qualification=M.Tech Faculty [id=103, name=Ramya, gender=FEMALE, dob=15/02/1990, qualification=M.Tech
Aug 14, 2022 12:25:19 PM org.hibernate.internal.SessionImpl createCriteria
WARN: HHH90000022: Hibernate's legacy org.hibernate.Criteria API is deprecated
Hibernate: select this_.faculty_id as faculty_1_0_0_, this_.faculty_college as Faculty Data Not Found
Aug 14, 2022 12:25:19 PM org.hibernate.internal.SessionImpl createCriteria
WARN: HHH90000022: Hibernate's legacy org.hibernate.Criteria API is deprecated
Hibernate: select this_.faculty_id as faculty_1_0_0_, this_.faculty_college as Faculty Data Found
Faculty [id=102, name=Surya, gender=MALE, dob=10/11/1993, qualification=M.Tech
Aug 14, 2022 12:25:19 PM org.hibernate.engine.jdbc.connections.internal.Driver
INFO: HHH10001008: Cleaning up connection pool [jdbc:mysql://localhost:3306/jd

```
16 demo.ProjectionsWithAggregateFunctions();
17 //demo.projectswithproperties();
18 //demo.OrderDemo();
19 //demo.HCQLConditions();
20 //demo.HCQLall();
21 }
22 public void RestrictionsDemo()
```

Problems: Javadoc Declaration Console Properties
terminated: HCQLDemo (Java Application) [C:\Program Files\Java\jdk-11.0.10\bin\javaw.exe (14-Aug-2022, 12:25:38 PM - 12:25:38 PM) (pid: 20116)]

Hibernate: select sum(this_.faculty_salary) as y0_ from faculty_table this_ Total Salary=191100.47
Aug 14, 2022 12:25:33 PM org.hibernate.internal.SessionImpl createCriteria
WARN: HHH90000022: Hibernate's legacy org.hibernate.Criteria API is deprecated
Hibernate: select avg(this_.faculty_salary) as y0_ from faculty_table this_ Average Salary=63700.15666666667
Aug 14, 2022 12:25:33 PM org.hibernate.internal.SessionImpl createCriteria
WARN: HHH90000022: Hibernate's legacy org.hibernate.Criteria API is deprecated
Hibernate: select max(this_.faculty_salary) as y0_ from faculty_table this_ Maximum Salary=86000.0
Aug 14, 2022 12:25:33 PM org.hibernate.internal.SessionImpl createCriteria
WARN: HHH90000022: Hibernate's legacy org.hibernate.Criteria API is deprecated
Hibernate: select min(this_.faculty_salary) as y0_ from faculty_table this_ Minimum Salary=45100.22
Aug 14, 2022 12:25:33 PM org.hibernate.engine.jdbc.connections.internal.Driver
INFO: HHH10001008: Cleaning up connection pool [jdbc:mysql://localhost:3306/jd

