

Perform CRUD operation from User with Employee Data using Hibernate Java Base

Entity Class-

```
1 package com.crudAssignment;
2
3 import javax.persistence.Entity;
4
5 @Data
6 @Entity
7 public class Employee_Data {
8     @Id
9     private int eid;
10    private String ename;
11    private String eaddress;
12    private double esalary;
13 }
14
```

HibernateUtil Class-

```
1 package com.crudAssignment;
2
3 import java.util.HashMap;
4
5 public class HibernateUtil {
6
7     private static StandardServiceRegistry registry;
8     private static SessionFactory sf;
9
10    public static SessionFactory getSessionFactory()
11    {
12        Map<String, Object> setting=new HashMap<String, Object>();
13
14        setting.put(Environment.DRIVER, "com.mysql.jdbc.Driver");
15        setting.put(Environment.URL, "jdbc:mysql://localhost:3306/hbjava09");
16        setting.put(Environment.USER, "root");
17        setting.put(Environment.PASS, "root");
18
19        setting.put(Environment.HBM2DDL_AUTO, "update");
20        setting.put(Environment.DIALECT, "org.hibernate.dialect.MySQL55Dialect");
21        setting.put(Environment.SHOW_SQL, "true");
22
23        registry=new StandardServiceRegistryBuilder().applySettings(setting).build();
24        MetadataSources ms=new MetadataSources(registry).addAnnotatedClass(Employee_Data.class);
25        Metadata md = ms.getMetadataBuilder().build();
26        sf = md.getSessionFactoryBuilder().build();
27        return sf;
28    }
29 }
30
```

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Crud Methods Class-

```
1 package com.crudAssignment;
2
3 import java.util.List;
4
5
6
7
8
9
10 public class Crud_Methods {
11     int a;
12     int id;
13     String name;
14     String address;
15     double salary;
16
17     SessionFactory sf=HibernateUtil.getSessionFactory();
18     Session session=sf.openSession();
19
20     Scanner sc=new Scanner(System.in);
21
22     public void createData()
23     {
24         while(true)
25         {
26             System.out.println("Want add data Y/N");
27             a=sc.next().charAt(0);
28             if(a=='Y')
29             {
30                 System.out.println("Enter Eid");
31                 id=sc.nextInt();
32
33                 System.out.println("Enter Ename");
34                 name=sc.next();
35
```

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```
36
37     System.out.println("Enter Eaddress");
38     address=sc.next();
39
40     System.out.println("Enter Esalary");
41     salary=sc.nextDouble();
42
43     Employee_Data e=new Employee_Data();
44     e.setEid(id);
45     e.setEname(name);
46     e.setEaddress(address);
47     e.setEsalary(salary);
48
49     session.save(e);
50     session.beginTransaction().commit();
51
52     System.out.println("Data add successfully");
53     }
54     else if(a=='N')
55     {
56         break;
57     }
58     else {
59         System.out.println("Invalid Choice");
60     }
61 }
62 }
```

```

public void getData()
{
    while(true)
    {
        System.out.println("Wants to get Single id data or All data press below choice");
        System.out.println("1. Get Single Data \n2. Get All data \n3. Exit" );
        a=sc.nextInt();
        if(a==1)
        {
            System.out.println("Enter id");
            id=sc.nextInt();
            Employee_Data emp = session.get(Employee_Data.class, id);
            System.out.println(emp);
        }
        else if(a==2)
        {
            List<Employee_Data> list = session.createQuery("from Employee Data").list();
            for(Employee_Data data:list)
            {
                System.out.println(data.getId());
                System.out.println(data.getName());
                System.out.println(data.getAddress());
                System.out.println(data.getSalary());
                System.out.println("*****");
            }
        }
        else if(a==3)
        {
            break;
        }
    }
}

```

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```

    }
    else
    {
        System.out.println("Invalid Choice");
    }
}

public void deleteData()
{
    while(true)
    {
        System.out.println("You want to delete data press Y/N");
        a=sc.next().charAt(0);
        if(a=='Y')
        {
            System.out.println("Enter id");
            id=sc.nextInt();

            Employee_Data emps = session.get(Employee_Data.class, id);
            session.delete(emps);
            session.beginTransaction().commit();
        }
        else if(a=='N')
        {
            break;
        }
        else {
            System.out.println("Invalid Choice");
        }
    }
}

```

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```

57         break;
58     }
59     else {
60         System.out.println("Invalid Choice");
61     }
62 }
63
64 public void closeOperation()
65 {
66     session.close();
67     sf.close();
68 }
69
70 }
71

```

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Main Class-

```

3 public class Main {
4     public static void main(String[] args) {
5         while(true)
6         {
7             Crud_Methods m=new Crud_Methods();
8             Scanner sc=new Scanner(System.in);
9
10            System.out.println("Enter your choice \n1. Add Data \n2. Update Data \n3. Get Data \n4. Delete Data");
11            System.out.println("press 0 to close connection");
12            int c=sc.nextInt();
13            switch(c)
14            {
15                case 1: m.createData();
16                break;
17
18                case 2: m.updateData();
19                break;
20
21                case 3: m.getData();
22                break;
23
24                case 4: m.deleteData();
25                break;
26
27                case 0:m.closeOperation();
28                break;
29
30            default:
31                break;
32            }
33        }
34    }
35 }

```

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```

8         break;
9
10    default:
11        break;
12    }
13 }
14
15 }
16

```

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Output-

1]Add Data-

```
INFO: HHH10001501: Connection obtained from JdbcConnectionAccess [org.hibernate.engine.jdbc.env.intern
Hibernate: create table Employee_Data (eid integer not null, eaddress varchar(255), ename varchar(255)
you wants to perform CRUD operation Y/N
```

```
Y
Enter your choice
1. Add Data
2. Update Data
3. Get Data
4. Delete Data
Press 0 to close Operation/Connection
```

```
1
Want add data Y/N
Y
Enter Eid
101
Enter Ename
Rahul
Enter Eaddress
Pune
Enter Esalary
25000
Hibernate: insert into Employee_Data (eaddress, ename, esalary, eid) values (?, ?, ?, ?)
Data add successfully
Want add data Y/N
```

```
Y
Enter Eid
102
Enter Ename
Amol
```

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```
Hibernate: insert into Employee_Data (eaddress, ename, esalary, eid) values (?, ?, ?, ?)
Data add successfully
Want add data Y/N
```

```
Y
Enter Eid
102
Enter Ename
Amol
```

```
Enter Eaddress
Mumbai
Enter Esalary
30000
```

```
Hibernate: insert into Employee_Data (eaddress, ename, esalary, eid) values (?, ?, ?, ?)
Data add successfully
Want add data Y/N
```

```
N
Enter your choice
1. Add Data
2. Update Data
3. Get Data
4. Delete Data
Press 0 to close Operation/Connection
```

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eid	eaddress	ename	esalary
101	Pune	Rahul	25000
102	Mumbai	Amol	30000

2] Get Data

```
N
Enter your choice
1. Add Data
2. Update Data
3. Get Data
4. Delete Data
Press 0 to close Operation/Connection
3
Wants to get Single id data or All data press below choice
1. Get Single Data
2. Get All data
3. Exit
1
Enter id
101
Employee_Data(eid=101, ename=Rahul, eaddress=Pune, esalary=25000.0)
Wants to get Single id data or All data press below choice
1. Get Single Data
2. Get All data
3. Exit
2
Jan 19, 2024 11:25:16 AM org.hibernate.hql.internal.QueryTranslatorFactoryInitiator initiateService
INFO: HHH000397: Using ASTQueryTranslatorFactory
Hibernate: select employee_d0_.eid as eid1_0_, employee_d0_.eaddress as eaddress2_0_, employee_d0_.ename as ename3_0_ from employee_d0_ where eid1_0_=101
Rahul
Pune
25000.0
*****
102
Amol
Mumbai
30000.0
*****
Wants to get Single id data or All data press below choice
1. Get Single Data
2. Get All data
3. Exit
3
Enter your choice
1. Add Data
2. Update Data
3. Get Data
4. Delete Data
Press 0 to close Operation/Connection
```

3] Delete Data and Check it-

Enter your choice

1. Add Data
2. Update Data
3. Get Data
4. Delete Data

Press 0 to close Operation/Connection

4

You want to delete data press Y/N

Y

Enter id

101

Hibernate: select employee_d0_.eid as eid1_0_0_, employee_d0_.eaddress as eaddress2_0_0_, employee_d0_.

Hibernate: delete from Employee_Data where eid=?

You want to delete data press Y/N

N

Enter your choice

1. Add Data
2. Update Data
3. Get Data
4. Delete Data

Press 0 to close Operation/Connection

3

Wants to get Single id data or All data press below choice

<

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4. Delete Data

Press 0 to close Operation/Connection

3

Wants to get Single id data or All data press below choice

1. Get Single Data
2. Get All data
3. Exit

2

Jan 19, 2024 11:14:03 AM org.hibernate.hql.internal.QueryTranslatorFactoryInitiator initiateService

INFO: HHH000397: Using ASTQueryTranslatorFactory

Hibernate: select employee_d0_.eid as eid1_0_, employee_d0_.eaddress as eaddress2_0_, employee_d0_.en

102

Amol

Mumbai

30000.0

Wants to get Single id data or All data press below choice

1. Get Single Data
2. Get All data
3. Exit

3

Enter your choice

1. Add Data
2. Update Data
3. Get Data
4. Delete Data

Press 0 to close Operation/Connection

0

Jan 19, 2024 11:17:54 AM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProvider

INFO: HHH10001008: Cleaning up connection pool [jdbc:mysql://localhost:3306/hbjava09]

<

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eid	eaddress	ename	esalary
102	Mumbai	Amol	30000