

## Hibernate School Application

### 1.Database connection And Insertion Operation:

The screenshot shows the Eclipse IDE interface. The top menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. Below the menu is a toolbar with various icons for file operations, editing, and running. The main editor area displays a Java application titled "SchoolApp [Java Application]" with the following SQL commands:

```
<terminated> SchoolApp [Java Application] C:\sts-4.31.0.RELEASE\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.21.0.7.v20250502-0916\jre\bin\javaw.exe (17-Aug-2025, 2:09:12 pm - 2:09:14 pm elapsed: 0:00:02.071) [JVM: HotSpot(TM) 64-Bit Server VM (21.0.7+0-LTS)]  
Hibernate:  
    create table school_user (  
        roll_no integer not null auto_increment,  
        address varchar(100),  
        dob date,  
        first_name varchar(50) not null,  
        gender enum ('MALE','FEMALE','OTHER') not null,  
        last_name varchar(50) not null,  
        user_name varchar(30) not null,  
        primary key (roll_no)  
    ) engine=InnoDB  
Hibernate:  
    alter table school_user  
        drop index UK_la7tjqg3tvnxm1jeleodg9aq6  
Hibernate:  
    alter table school_user  
        add constraint UK_la7tjqg3tvnxm1jeleodg9aq6 unique (user_name)  
Hibernate:  
insert  
into  
    school_user  
    (address, dob, first_name, gender, last_name, user_name)  
values  
    (?, ?, ?, ?, ?)  
User inserted into Database: SchoolUser{rollno=1, firstname='Komal', lastname='Baviskar', username='Komal1755419954604', gender=FEMALE, address='Pune', dob=2002-04-19}  
Hibernate:  
select  
    su1.roll_no,  
    su1.address,  
    su1.dob,  
    su1.first_name,  
    su1.gender,  
    su1.last_name,  
    su1.user name
```

The console output at the bottom shows the execution results, including the insertion of a new record into the database.[illegible]

## 2.Fetch operation From Database Printed in console:

```
workspace-spring-tools-for-eclipse-4.31.0.RELEASE - com.hibernate.schoolApp/src/main/java/com/wipro/komal/hibernate/schoolapp/SchoolApp.java - Spring Tools for Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Hibernate:
select
  sui_0.roll_no,
  sui_0.address,
  sui_0.dob,
  sui_0.first_name,
  sui_0.gender,
  sui_0.last_name,
  sui_0.user_name
from
  school_user sui_0
where
  sui_0.roll_no=?
User fetched from Database: SchoolUser{rollno=1, firstname='Komal', lastname='Baviskar', username='Komal1755419954604', gender=FEMALE, address='Pune', dob=2002-04-19}
```

## 3.Update Operation

Result Grid							
Filter Rows:							
	roll_no	address	dob	first_name	gender	last_name	user_name
1	Pune	2002-04-19	Komu	FEMALE	Baviskar	Komal1755420868868	
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

```
workspace-spring-tools-for-eclipse-4.31.0.RELEASE - com.hibernate.schoolApp/src/main/java/com/wipro/komal/hibernate/schoolapp/SchoolApp.java - Spring Tools for Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Hibernate:
update
  school_user
set
  address=?,
  dob=?,
  first_name=?,
  gender=?,
  last_name=?,
  user_name=?
where
  roll_no=?
User updated: SchoolUser{rollno=2, firstname='komu', lastname='Baviskar', username='Komal1755420868868', gender=FEMALE, address='Pune', dob=2002-04-19}
```

## 4.Delete User From the Database:

```
Hibernate:
  select
    su1_0.roll_no,
    su1_0.address,
    su1_0.dob,
    su1_0.first_name,
    su1_0.gender,
    su1_0.last_name,
    su1_0.user_name
  from
    school_user su1_0
  where
    su1_0.roll_no=?
Hibernate:
  delete
  from
    school_user
  where
    roll_no=?
User with rollno 1 deleted successfully.
Fetching user to confirm deletion...
```