For Students,

1. **First Login Verification: This is a sample code which we need to write at the backend to verify the credentials, and it will be same for all the validations below.**

**public** **void** login(ActionEvent event) **throws** Exception{

String username= textusername.getText();

String password = textpassword.getText();

String message = **null**;

UserDao dao = **new** UserDao();

ResultSet rs = dao.findByUserName(username);

**try**{ **if** (rs.next()){

String pass = rs.getString("password");

**if**(pass.equals(password)){

message = "You have successfully logged in ";

}

**else**{

message ="Invalid Username/Password!";

System.***out***.println(message);

}

}

**else**{

message ="Invalid Username/Password!";

System.***out***.println(message);

}

}

**catch** (SQLException e) {

e.printStackTrace();

}

1. }
2. **Viewing all of his courses:s**

Select cu.course\_id, cu.course\_name from course cu inner join department d

on d.dept\_id = cu.dept\_id inner join user u on

u.dept\_id = d.dept\_id

where u.username =’-----------’;

1. **After getting into a particular course viewing the class rooster:**

Select c.class\_id from user u inner join department d

on u.dept\_id = d.dept\_id inner join course cu on

cu.dept\_id = d.dept\_id inner join class c

on c.class\_id = cu.class\_id

where u.username =’-----------’;

1. **Viewing his grades for the particular course.**

Select g.grade from grade g inner join class c

On c.class\_id = g.class\_id inner join course cu

On cu.course\_id = c.course\_id

Where cu.course\_id =’……’;

5. Faculty Details.

For Faculty,

1. **First Login Verification: same as above**
2. **All of the classes he is teaching**

Select cu.course\_id, cu.course\_name,c.class\_id, from user u inner join department d

on u.dept\_id = d.dept\_id inner join course cu on

cu.dept\_id = d.dept\_id inner join class c

on c.class\_id = cu.class\_id

where u.username =’-----------’;

1. **After entering a particular class he will be presented with a view of the students in his class**

Select c.class\_id.c.user\_id,u.username from class c inner join user u

On c.user\_id = u.user\_id where

c.class\_id =’…’;

1. If the faculty selects a particular student he will be presented with student details and also the current grade of the students.

Select u.dept\_id,u.user\_id,u.firstname,u.lastname,u.email,c.course\_id,c.class\_id,g.grade

From user u inner join grade g on

u.user\_id = g.user\_id

inner join class c on

g.class\_id = c.class\_id

where u.username =’…..’;

5. Also faculty will have the right to update the students grades so  the query change the particular students grades.

For Admin,

**1.Login verification: same as above**

**2. Adding a faculty or student  Information.**

Insert statement: INSERT INTO `sys`.`user` (`user\_id`, `FirstName`, `LastName`, `ZipCode`, `City`, `State`, `email`, `dept\_id`, `username`, `password`)

VALUES ('20389660'new facully or student, '---------', '60616', 'Chicago', 'IL', '@hawk.iit.edu', '2001', 'knaik3', '1234');

**3.Updating the faculty or student information:**

update table user

set column1 = somevalue, column2 = somevalue

where user\_id=’……’;

**4.deleting the faculty or student information**.

Delete from user

Where user\_id = ‘…….’;