

20200513 DB

지문인식출석

B 신석환

```

chulsuk.java informChulsuk.java x
1 package Databases;
2
3 import java.sql.Connection;
4
5
6
7
8
9 public class informChulsuk {
10     inputSQL mysql = new inputSQL();
11     static Scanner sc = new Scanner(System.in);
12
13     public static void attendance(String a) {
14         if (a.equals("1")) {
15             System.out.println("1. Class room 1 (Math)");
16             System.out.println("2. Class room 2 (Java)");
17             System.out.println("3. Class room 3 (Database)");
18             System.out.println("0. Back");
19             viewForTeacher.viewAttendance(sc.next());
20             System.out.println();
21         } else if (!(a.equals("1")) && !(a.equals("0"))) {
22             System.out.println("Error");
23         }
24     }
25
26     public static void goodLuckForStudent() {
27         System.out.println("Class room 1");
28         System.out.println("Class room 2");
29         System.out.println("Class room 3");
30         System.out.println("Back 4");
31         String A = sc.next();
32
33         if (A.equals("1")) {
34             System.out.println("Enter Personal Number, Name and Scan");
35             int b = sc.nextInt();
36             String c = sc.next();
37             int d = 1;
38             int e = 0;
39             int f = 0;
40             studentEnter(b, c, d, e, f);
41             System.out.println("Enter room 1 Good Luck");
42
43         } else if (A.equals("2")) {
44             System.out.println("Enter Personal Number, Name and Scan");
45
46             int b = sc.nextInt();
47             String c = sc.next();
48             int d = 0;
49             int e = 1;
50             int f = 0;
51             studentEnter(b, c, d, e, f);

```

```

public static void studentEnter(int ID, String name, int room_1, int room_2, int room_3) {

    int b = ID;
    String c = name;
    int d = room_1;
    int e = room_2;
    int f = room_3;
    String query = "insert into students(id, name, room_1, room_2, room_3) values('" + b + "', '" + c + "', '" + d
        + "', '" + e + "', '" + f + "')";

    Statement statement = null;
    ResultSet resultSet = null;
    Connection connection = null;
    String id = "root";
    String password = "SEOK09HWAN19!";

    try {
        connection = DriverManager.getConnection(
            "jdbc:mysql://localhost:3306/schoolmanagement?useUnicode=true&characterEncoding=utf8&serverTimezone=
            id, password);
        statement = connection.createStatement();

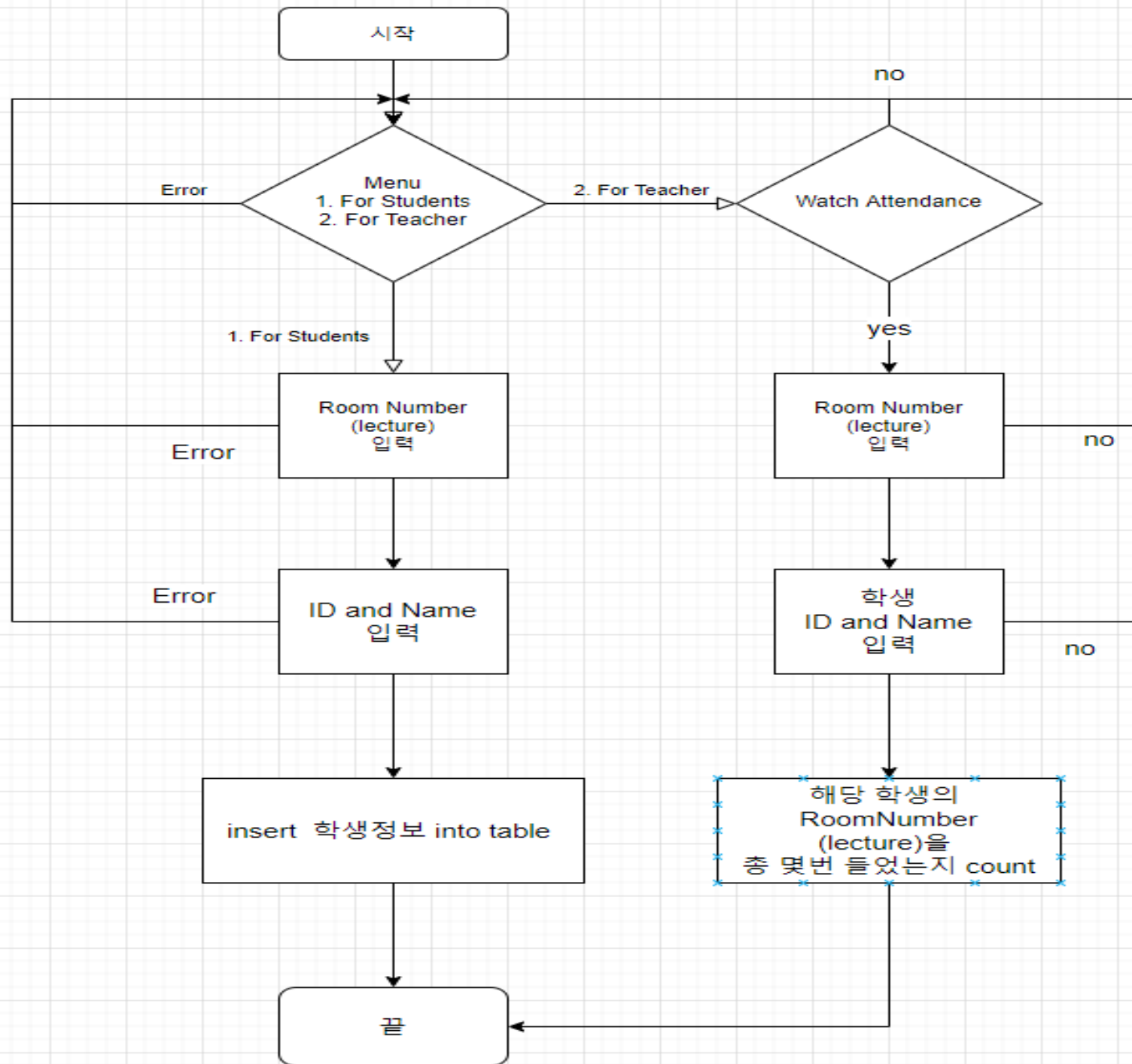
        if (statement.execute(query)) {
            resultSet = statement.getResultSet();
        }

        while (resultSet != null && resultSet.next()) {
            String str = resultSet.getString(1);

            System.out.println(str);
        }
    } catch (NullPointerException e1) {
        e1.printStackTrace();
    } catch (Exception e1) {
        e1.printStackTrace();
    }
}

```

#순서도



#만든 메소드와 클래스 - Main

chulsuk.java x *informChulsuk.java

```
1 package Databases;
2
3 import java.text.DateFormat;
4
5
6
7
8 public class chulsuk {
9     static informChulsuk IC = new informChulsuk();
10    static viewForTeacher AD = new viewForTeacher();
11    static DateFormat DF = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
12    static Calendar cal = Calendar.getInstance();
13    static LocalDateTime LDT = LocalDateTime.now();
14    static int countForStudent = 0;
15    static int countForTeacher = 0;
16
17    public static void main(String[] args) {
18
19        while (true) {
20            Date d = new Date();
21            System.out.println(d);
22            System.out.println("Menu");
23            System.out.println("1. For Students");
24            System.out.println("2. For Teacher");
25
26            String input = informChulsuk.sc.next();
27
28            if (input.equals("1")) {
29
30                informChulsuk.goodLuckForStudent();
31
32            } else if (input.equals("2")) {
33                System.out.println("1. watch attendance");
34                System.out.println("0. Back");
35                informChulsuk.attendance(viewForTeacher.sc.next());
36
37            } else {
38                System.out.println("Error");
39            }
40        }
41    }
42 }
43
```

#출석 확인을 위한 메소드

```
1 package Databases;
2
3 import java.util.Scanner;
4
5 public class viewForTeacher {
6     static inputSQL mysql = new inputSQL();
7     static Scanner sc = new Scanner(System.in);
8     public static void viewAttendance(String A) {
9
10         if (A.equals("1")) {
11             System.out.println("Enter Student No and Name");
12
13             int no = inputSQL.sc.nextInt();
14             String name = inputSQL.sc.next();
15
16             inputSQL.getsql("create or replace view view_" + name + "_" + A + " as select count(room_" + A + ") from students"
17                 + " where name = '" + name + "' and id = " + no + " and room_" + A + " = 1;");
18
19             inputSQL.getsql("select * from view_" + name + "_" + A + ";");
20
21         } else if (A.equals("2")) {
22             System.out.println("Enter Student No and Name");
23
24             int no = inputSQL.sc.nextInt();
25             String name = inputSQL.sc.next();
26
27             inputSQL.getsql("create or replace view view_" + name + "_" + A + " as select count(room_" + A + ") from students"
28                 + " where name = '" + name + "' and id = " + no + " and room_" + A + " = 1;");
29
30             inputSQL.getsql("select * from view_" + name + "_" + A + ";");
31         } else if (A.equals("3")) {
32             System.out.println("Enter Student No and Name");
33
34             int no = inputSQL.sc.nextInt();
35             String name = inputSQL.sc.next();
36
37             inputSQL.getsql("create or replace view view_" + name + "_" + A + " as select count(room_" + A + ") from students"
38                 + " where name = '" + name + "' and id = " + no + " and room_" + A + " = 1;");
39
40             inputSQL.getsql("select * from view_" + name + "_" + A + ";");
41         } else {
42             System.out.println("Back");
43         }
44     }
45 }
```

```

public static void attendance(String a) {
    if (a.equals("1")) {
        System.out.println("1. Class room 1 (Math)");
        System.out.println("2. Class room 2 (Java)");
        System.out.println("3. Class room 3 (Database)");
        System.out.println("0. Back");
        viewForTeacher.viewAttendance(sc.next());
        System.out.println();
    } else if (!(a.equals("1")) && !(a.equals("0"))) {
        System.out.println("Error");
    }
}

public static void goodLuckForStudent() {
    System.out.println("Class room 1");
    System.out.println("Class room 2");
    System.out.println("Class room 3");
    System.out.println("Back 4");
    String A = sc.next();

    if (A.equals("1")) {
        System.out.println("Enter Personal Number, Name and Scan");
        int b = sc.nextInt();
        String c = sc.next();
        int d = 1;
        int e = 0;
        int f = 0;
        studentEnter(b, c, d, e, f);
        System.out.println("Enter room 1 Good Luck");

    } else if (A.equals("2")) {
        System.out.println("Enter Personal Number, Name and Scan");

        int b = sc.nextInt();
        String c = sc.next();
        int d = 0;
        int e = 1;
        int f = 0;
        studentEnter(b, c, d, e, f);
        System.out.println("Enter room 2 Good Luck");

    } else if (A.equals("3")) {
        System.out.println("Enter Personal Number, Name and Scan");

        int b = sc.nextInt();
        String c = sc.next();
        int d = 0;
        int e = 0;
        int f = 1;

```

```

        studentEnter(b, c, d, e, f);
        System.out.println("Enter room 3 Good Luck");
    } else {
        System.out.println("Error");
    }
}

```

#학생 출석용 메소드

```

public static void studentEnter(int ID, String name, int room_1, int room_2, int room_3) {

    int b = ID;
    String c = name;
    int d = room_1;
    int e = room_2;
    int f = room_3;
    String query = "insert into students(id, name, room_1, room_2, room_3) values('" + b + "', '" + c + "', '" + d
        + "', '" + e + "', '" + f + "')";

    Statement statement = null;
    ResultSet resultSet = null;
    Connection connection = null;
    String id = "root";
    String password = "SEOK09HWAN19!";

    try {
        connection = DriverManager.getConnection(
            "jdbc:mysql://localhost:3306/schoolmanagement?useUnicode=true&characterEncoding=utf8&serverTimezone=Asia/Seoul",
            id, password);
        statement = connection.createStatement();

        if (statement.execute(query)) {
            resultSet = statement.getResultSet();
        }

        while (resultSet != null && resultSet.next()) {
            String str = resultSet.getString(1);

            System.out.println(str);
        }
    } catch (NullPointerException e1) {
        e1.printStackTrace();
    } catch (Exception e1) {
        e1.printStackTrace();
    }
}

```

```
package Databases;
```

```
import java.sql.Connection;
```

```
public class inputSQL {  
    static Scanner sc = new Scanner(System.in);  
    public static void getsql(String a) {  
        Statement statement = null;  
        ResultSet resultSet = null;  
        Connection connection = null;  
        String id = "root";  
        String password = "SEOK09HWAN19!";  
  
        String dbQuery = a;  
  
        try {  
            connection = DriverManager.getConnection(  
                "jdbc:mysql://localhost:3306/schoolmanagement?useUnicode=true&characterEncoding=utf8&serverTimezone=Asia/Seoul&useSSL=false",  
                id, password);  
            statement = connection.createStatement();  
  
            if (statement.execute(dbQuery)) {  
                resultSet = statement.getResultSet();  
            }  
  
            while (resultSet != null && resultSet.next()) {  
                String str = resultSet.getString(1);  
  
                System.out.println(str);  
            }  
        } catch (NullPointerException e) {  
            e.printStackTrace();  
        } catch (Exception e) {  
            e.printStackTrace();  
        }  
    }  
}
```

#데이터 베이스 연동을 위한 메소드

#입력

```
Wed May 13 13:32:23 KST 2020
Menu
1. For Students
2. For Teacher
1
Class room 1
Class room 2
Class room 3
Back 4
2
Enter Personal Number, Name and Scan
1 shin
Enter room 2 Good Luck
```

```
Wed May 13 13:32:23 KST 2020
Menu
1. For Students
2. For Teacher
1
Class room 1
Class room 2
Class room 3
Back 4
2
Enter Personal Number, Name and Scan
1 shin
Enter room 2 Good Luck
Wed May 13 13:32:43 KST 2020
Menu
1. For Students
2. For Teacher
1
Class room 1
Class room 2
Class room 3
Back 4
3
Enter Personal Number, Name and Scan
2 seok
Enter room 3 Good Luck
Wed May 13 13:34:29 KST 2020
Menu
1. For Students
2. For Teacher
```

#오류

```
1. For Students
2. For Teacher
1
Class room 1
Class room 2
Class room 3
Back 4
4
Error
Wed May 13 13:35:32 KST 2020
Menu
1. For Students
2. For Teacher
```

```
mysql> select * from students;
```

NO	ID	NAME	room_1	room_2	room_3
29	1	shin	0	1	0

```
1 row in set (0.00 sec)
```

```
mysql> select * from students;
```

NO	ID	NAME	room_1	room_2	room_3
29	1	shin	0	1	0
30	2	seok	0	0	1

```
2 rows in set (0.00 sec)
```


#데이터 입력의 예

```
mysql> select * from students;
```

NO	ID	NAME	room_1	room_2	room_3
29	1	shin	0	1	0
30	2	seok	0	0	1
31	1	shin	1	0	0
32	1	shin	1	0	0
33	1	shin	1	0	0
34	2	shin	1	0	0
35	2	seok	1	0	0
36	1	shin	0	1	0
37	1	shin	0	1	0
38	1	shin	0	0	1

```
10 rows in set (0.00 sec)
```

#출력

Wed May 13 13:38:15 KST 2020

Menu

1. For Students

2. For Teacher

2

1. watch attendance

0. Back

1

1. Class room 1 (Math)

2. Class room 2 (Java)

3. Class room 3 (Database)

0. Back

2

Enter Student No and Name

1 shin

3

```
} else if (A.equals("2")) {
    System.out.println("Enter Student No and Name");

    int no = inputSQL.sc.nextInt();
    String name = inputSQL.sc.next();

    inputSQL.getsql("create or replace view view_" + name + "_" + A + " as select count(room_" + A + ") from students"
        + " where name = '" + name + "' and id = " + no + " and room_" + A + " = 1;");

    inputSQL.getsql("select * from view_" + name + "_" + A + ";");
```