

```
1 package com.dgu.sql401;
2
3 import java.io.IOException;
4 import java.util.Formatter;
5 import java.util.Iterator;
6 import java.util.List;
7 import java.util.Scanner;
8
9 /**
10  * @학번: 2019212967      이름: 유수민
11  * @날짜: 2021.10.06
12  * 제3장 59쪽
13  * 질의101: 모든 교수의 이름을 찾으세요.
14  * sql_101: select name from instructor;
15  */
16 public class SQL401 {
17     String sql="select * from student";
18     String sqlh="모든 학생을 찾으세요.";
19
20     StudentDao sd = new StudentDao();
21     StudentBean sb = new StudentBean();
22     Scanner scan = new Scanner(System.in);
23
24     //학생의 모든 속성 이름(제목) 출력
25     public void printStudentTitle(StudentTitleBean stb){
26         System.out.printf("%10s  ", stb.getIdTitle());
27         System.out.printf("%-20s", stb.getNameTitle());
28         System.out.printf("%-20s", stb.getDeptNameTitle());
29         System.out.printf("%10sWn", stb.getTotCredTitle());
30     }
31     // 표준 출력(화면)
32     public void printAllStudent(){
33         List<StudentBean> list;
34
35         System.out.format("  학번: 2019212967  이름: 유수민  날짜: 2021.10.06Wn");
36         System.out.format("  질의401: "+sqlh+"Wn");
37         System.out.format("  sql_401: "+sql+"Wn");
38         System.out.format("  실행 결과: WnWn");
39     }
```

```
40     StudentTitleBean stb = sd.makeStudentTitle(sql);
41     printStudentTitle(stb);
42
43     list = sd.makeListAllStudents(sql);
44     Iterator it = list.iterator();
45
46     while(it.hasNext()){
47         sb = (StudentBean)it.next();
48         System.out.format("%10s    ", sb.getId());
49         System.out.format("%-20s", sb.getName());
50         System.out.format("%-20s", sb.getDeptName());
51         System.out.format("%10d", sb.getTotCred());
52         System.out.format("\n");
53     }
54     System.out.println();
55 }
56
57 //파일 출력
58 public void writeAllStudent(){
59     Formatter output;
60     List<StudentBean> list;
61
62     list = sd.makeListAllStudents(sql);
63     Iterator it = list.iterator();
64     try {
65         output = new Formatter("d:/sql_100/sql_401.txt");
66         output.format("\n    파일이름: sql-401.txt(font:letter gothic std)\n");
67         output.format("    학번: 2019212967    이름: 유수민    날짜: 2021.10.06\n");
68         output.format("    질의401: "+sqlh+"\n");
69         output.format("    sql_401: "+sql+"\n");
70         output.format("    실행결과: \n\n");
71
72         StudentTitleBean stb = sd.makeStudentTitle(sql);
73         output.format("%10s    ", stb.getIdTitle());
74         output.format("%-20s", stb.getNameTitle());
75         output.format("%-20s", stb.getDeptNameTitle());
76         output.format("%10s\n", stb.getTotCredTitle());
77
78         while(it.hasNext()){
```

```
79         sb = (StudentBean)it.next();
80         output.format("%10s", sb.getId());
81         output.format("%-20s", sb.getName());
82         output.format("%-20s", sb.getDeptName());
83         output.format("%10d", sb.getTotCred());
84         output.format("\n");
85     }
86     output.close();
87     System.out.println("\n파일에 쓰기 성공.");
88 } catch (IOException e) {
89     System.out.println("\n파일에 쓰기 오류.");
90 }
91 }
92
93 public static void main(String[] args) {
94     SQL401 sql_401 = new SQL401();
95     sql_401.printAllStudent();
96     sql_401.writeAllStudent();
97 }
98 }
```