

```

/**
 * @프로그램:SQL101
 * @저자:학번: 이름:
 * @날짜:2021.10.30.
 * 질의101:학생테이블에 값을 넣으세요.
 * sql-101:select * from student;
 */

package com.mycompany.sql101;

import java.io.IOException;

import java.util.Formatter;

import java.util.Iterator;

import java.util.List;

import java.util.Scanner;

public class SQL101 {

    String sql="insert into student values";

    String sqlh=" 학생테이블에 값을 넣으세요.";

    StudentDao sd = new StudentDao();

    StudentBean sb;// = new StudentBean();

    //Scanner scan = new Scanner(System.in);

    //학생의 모든 속성 이름(제목) 출력

    public void printStudentTitle(StudentTitleBean stb){

        System.out.printf("%10s ", stb.getIdTitle());

        System.out.printf("%-20s", stb.getNameTitle());
    }
}

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        System.out.printf("%-20s", stb.getDepNameTitle());

        System.out.printf("%10sWn", stb.getTotCredTitle());
    }

    // 표준 출력(화면)

    public void printAllStudent(){

        List<StudentBean> list;

        System.out.format(" 학번: 2019212969 이름: 강해원 날짜: 2021.10.30Wn");

        System.out.format(" 질의101: "+sqlh+"Wn");

        System.out.format(" sql_101: "+sql+"Wn");

        System.out.format(" 실행 결과: WnWn");

        StudentTitleBean stb = sd.makeStudentTitle(sql);

        printStudentTitle(stb);

        StudentBean sb = null;

        list = sd.makeListAllStudents(sql);

        Iterator it = list.iterator();

        while(it.hasNext()){

            sb = (StudentBean)it.next();

            System.out.format("%10s ", sb.getId());

            System.out.format("%-20s", sb.getName());

            System.out.format("%-20s", sb.getDeptName());

            System.out.format("%10d", sb.getTotCred());

            System.out.format("Wn");

```

```
}

System.out.println();

}
```

//파일 출력

```
public void writeAllStudent(){

    Formatter output;

    List<StudentBean> list;

    StudentBean sb = null;

    list = sd.makeListAllStudents(sql);

    Iterator it = list.iterator();

    try {

        output = new Formatter("d:/sql_100/sql_101.txt");

        output.format("\n 파일이름: sql-101.txt(font:letter gothic std)\n");

        output.format(" 학번: 2019212969 이름: 강해원 날짜: 2021.10.30\n");

        output.format(" 질의101: "+sqlh+"\n");

        output.format(" sql_101: "+sql+"\n");

        output.format(" 실행결과: \n\n");


        StudentTitleBean stb = sd.makeStudentTitle(sql);

        output.format("%10s ", stb.getIdTitle());

        output.format("%-20s", stb.getNameTitle());

        output.format("%-20s", stb.getDepNameTitle());

        output.format("%10s\n", stb.getTotCredTitle());

    } catch (Exception e) {
        e.printStackTrace();
    }
}
```

```

while(it.hasNext()){

    sb = (StudentBean)it.next();

    output.format("%10s ", sb.getId());

    output.format("%-20s", sb.getName());

    output.format("%-20s", sb.getDeptName());

    output.format("%10d", sb.getTotCred());

    output.format("\n");

}

output.close();

System.out.println("\n파일에 쓰기 성공.");

} catch (IOException e) {

    System.out.println("\n파일에 쓰기 오류.");

}

}

```

//학생 자료 입력

```

public StudentBean getStudentData(){

    StudentBean sb = new StudentBean();

    Scanner scan = new Scanner(System.in);

    String id;//, name, deptName;

    int totCred;

    System.out.println("학번: ");

    id = scan.next();

    //System.out.println("입력된 학번: "+id);

    sb.setId(id);

    System.out.println("이름: ");

```

```

sb.setName(scan.next());

//System.out.println("입력된 이름: "+name);

//sb.setName(name);

System.out.println("학과이름: ");

sb.setDeptName(scan.next());

//System.out.println("입력된 학과이름: "+deptName);

//sb.setDeptName(deptName);

System.out.println("학점: ");

sb.setTotCred(scan.nextInt());

//System.out.println("입력된 학점: "+totCred);

//sb.setTotCred(totCred);

return sb;
}

```

//입력된 값 출력

```

public void printStudentBean(StudentBean sb){

    //sb = getStudentData();

    System.out.println("입력된 학번: "+sb.getId());

    System.out.println("입력된 이름: "+sb.getName());

    System.out.println("입력된 학과이름: "+sb.getDeptName());

    System.out.println("입력된 학점: "+sb.getTotCred());

}

```

//삽입 절차

```

public void insertion(){

    StudentBean sb = getStudentData(); //학생 자료 입력

    printStudentBean(sb);                //입력된 학생 자료의 표준 출력
}

```

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        printAllStudent();                //삽입 전 학생 관계 내용 확인. select * from student

        int n = sd.insertAStudent(sb);    //학생 관계에 삽입

        if(n==1) System.out.println("inserted successfully");

        else System.out.println("insert failure");

        printAllStudent();                //삽입 후 학생 관계 내용
    }

    public static void main(String[] args) {

        SQL101 sql_101 = new SQL101();

        sql_101.insertion();

    }
}

```