[ Java Project : 오라클연동]

0405-0408

조원: 김정태, 손정현

**extend 1. 요구사항 분석**

DB와 연동하여 데이터를 영구적으로 저장한다.

주제는 카페의 후기를 볼 수 있는 프로그램 제작이다.

카페를 등록하고 수정하고

삭제 4.전체보기 5.검색

**2. Class 설계**

**1. CafeDAO Class (DB와 연결하는 기능)**

①Member 변수

- Scanner

②Method

- main ( ) : 프로그램의 시작 기능

- menu ( ) : 로그인과 회원가입 선택 메뉴

**2. CafeDTO Class (저장할 값의 형식 기능)**

**3. Main Class (저장할 값의 형식 기능)**

**4. CafeADM Class (저장할 값의 형식 기능)**

**1. dao pakage - CafeDAO Class**

package dao;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.Statement;

import java.util.ArrayList;

import dto.CafeDTO;

public class CafeDAO {

private Connection conn = null;

private String url = "jdbc:oracle:thin:@localhost:1521:orcl";

private CafeDTO cafedto = new CafeDTO();

public CafeDAO(){

String driver = "oracle.jdbc.driver.OracleDriver";

try {

System.***out***.println("로드성공");

Class.*forName*(driver);

} catch (Exception e) {

System.***out***.println("로드실패");

}

}//생성자 종료

private Connection getConnection() {

try {

conn = DriverManager.*getConnection*(url, "system", "1111");

System.***out***.println("연결성공");

return conn;

} catch (Exception e) {

System.***out***.println("연결실패");

}

return null;

}

public void insert(CafeDTO c) {

PreparedStatement psmt = null;

if(getConnection() != null) {

try {

String sql="insert into cafe values(?,?)";

psmt = conn.prepareStatement(sql);

psmt.setString(1, c.getName());

psmt.setString(2, c.getReview());

int a = psmt.executeUpdate();

System.***out***.println(a+"건 성공");

} catch (Exception e) {

System.***out***.println("입력작업에서 예외 발생");

}

}

}

public ArrayList <CafeDTO> selectAll() {

ArrayList <CafeDTO> cafeList = new ArrayList<>();

if(getConnection() != null) {

try {

Statement stmt = null;

ResultSet rs = null;

String sql = "select \* from cafe";

stmt = conn.createStatement();

rs = stmt.executeQuery(sql);

while(rs.next()) {

String name = rs.getString("name");

String review = rs.getString("review");

CafeDTO c = new CafeDTO();

c.setName(name);

c.setReview(review);

cafeList.add(c);

}

} catch (Exception e) {

}

}

return cafeList;

}

public void mod(String name, String review) {

PreparedStatement psmt = null;

if(getConnection() != null) {

try {

String sql="update cafe set review=? where name=?";

psmt = conn.prepareStatement(sql);

psmt.setString(1, review);

psmt.setString(2, name);

int a = psmt.executeUpdate();

System.***out***.println(a+"건 성공");

} catch (Exception e) {

System.***out***.println("입력작업에서 예외 발생");

}

}

}

public void del(String name) {

PreparedStatement psmt = null;

if(getConnection() != null) {

try {

String sql="delete from cafe where name=?";

psmt = conn.prepareStatement(sql);

psmt.setString(1, name);

int a = psmt.executeUpdate();

System.***out***.println(a+"건 성공");

} catch (Exception e) {

System.***out***.println("입력작업에서 예외 발생");

}

}

}

public ArrayList <CafeDTO> search() {

ArrayList <CafeDTO> cafeList = new ArrayList<>();

if(getConnection() != null) {

try {

Statement stmt = null;

ResultSet rs = null;

String sql = "select \* from cafe";

stmt = conn.createStatement();

rs = stmt.executeQuery(sql);

while(rs.next()) {

String name = rs.getString("name");

String review = rs.getString("review");

CafeDTO c = new CafeDTO();

c.setName(name);

c.setReview(review);

cafeList.add(c);

}

} catch (Exception e) {

}

}

return cafeList;

}

}//class종료

**2. dto pakage - CafeDTO Class**

package dto;

public class CafeDTO {

private String name;

private String review;

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getReview() {

return review;

}

public void setReview(String review) {

this.review = review;

}

}

**3. main pakage - Main Class**

package main;

import manager.CafeADM;

public class Main {

public static void main(String[] args) {

// **TODO** Auto-generated method stub

new CafeADM();

}

}

**4. manager pakage - CafeADM Class**

package manager;

import java.util.ArrayList;

import java.util.Scanner;

import dao.CafeDAO;

import dto.CafeDTO;

public class CafeADM {

Scanner in = new Scanner (System.***in***);

CafeDAO cafedao = new CafeDAO();

public CafeADM() {

System.***out***.println("카페 후기 프로그램");

while(true) {

System.***out***.println("1.등록 2.수정 3.삭제 4.전체보기 5.검색");

int selNum = in.nextInt(); in.nextLine();

if(selNum == 1) {

add();

}else if(selNum==2) {

mod();

}else if(selNum==3) {

del();

}else if(selNum==4) {

allList();

}else if(selNum==5) {

search();

}else {

break;

}

}

}

private void search() {

System.***out***.println("검색할 카페이름을 입력하세요");

String name = in.nextLine();

ArrayList <CafeDTO> cafeList = cafedao.selectAll();

for(CafeDTO c : cafeList) {

if(c.getName().equals(name)) {

System.***out***.println("-------------------");

System.***out***.println("카페이름 : "+c.getName());

System.***out***.println("후기 : "+c.getReview());

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

}

}

}

private void add() {

System.***out***.println("카페이름을 입력하세요");

String name = in.nextLine();

System.***out***.println("후기를 등록하세요");

String review = in.nextLine();

CafeDTO cafe = new CafeDTO();

cafe.setName(name);

cafe.setReview(review);

cafedao.insert(cafe);

}

private void allList() {

ArrayList <CafeDTO> cafeList = cafedao.selectAll();

for(CafeDTO c : cafeList) {

System.***out***.println("-------------------");

System.***out***.println("카페이름 : "+c.getName());

System.***out***.println("후기 : "+c.getReview());

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

}

}

private void del() {

allList();

System.***out***.println("삭제할 카페를 선택해주세요");

String cafeName = in.nextLine();

cafedao.del(cafeName);

}

private void mod() {

allList();

System.***out***.println("후기를 수정할 카페를 선택해주세요");

String cafeName = in.nextLine();

System.***out***.println("수정할 후기를 입력하세요");

String cafeReview = in.nextLine();

cafedao.mod(cafeName, cafeReview);

}

}//class종료

**3. 개선점**

**1. 오류 분석 : b**