

JAVA1 팀 공고자검색

전규환, 손병규, 신봉규, 채예진, 박재형





중고차 구매 시 꼭 필요한 정보

년식, 주행거리, 색상, 사고유무, 가격, ...

1. JAVA 소스코드

1-1.

MemberDAO

```
package dao;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.ArrayList;
import dto.MemberVO;
public class MemberDAO {
    private ArrayList<MemberVO> dtos;
    private Connection con;
    private Statement st;
    private ResultSet rs;
    private PreparedStatement pstmt:
    public MemberDAO() {
        dtos = new ArrayList<MemberVO>();
        try {
```

```
public ArrayList<MemberVO> getAllMembers() {
   String SQL-"SELECT " FAOM USEDCAR";
   try [
       rs-st.executeQuery(SQL);
       while(rs.next()) {
           String company = rs.getString("COMPANY");
           String name - rs.getString("MAME");
           int price = rs.getInt("PRICE");
           int km - rs.getInt("KM");
           String color - rs.getString("COLOR");
           String engine =rs.getString("ENGINE");
           String accident -rs.getString("ACCIDENT");
           String buy date =rs.getString("BUY DATE");
           MemberVO VO-new MemberVO(company,name,price,km,color,engine,accident,buy date);
           dtos.add(VO);
           System.out.println("usam @m");
    |catch(SQLException e) [
       e.printStackTrace();
       System.out.println("HORHOLD @3 Q#:"+e.getMessage());
   return dtos;
```

모두조회

데이터 추가

```
public ArrayList<MemberVO> setMembers(String COMPANY,String NAME,int PRICE,
       int KM, String COLOR, String ENGINE, String ACCIDENT, String DATE) (
   String SQL="INSERT INTO USEDCAR VALUES(?, ?, ?, ?, ?, ?, ?, ?, SYSDATE)";
   try
       pstmt = con.prepareStatement(SQL);
       pstmt.setString(1, COMPANY);
       pstmt.setString(2, NAME);
       pstmt.setInt(3, PRICE);
       pstmt.setInt(4, KM);
       pstmt.setString(5, COLOR);
       pstmt.setString(6, ENGINE);
       pstmt.setString(7, ACCIDENT);
       pstmt.setString(8, DATE);
       pstmt.executeUpdate():
       System.out.println("데이트 추가 學量");
      catch (SQLException e) {
       e.printStackTrace():
       System.out.println("데이터베이스 연결 호류:"+e.getMessage());
   return dtos;
```

차량 가격 수정, 차량 삭제

```
public ArrayList<MemberVO> UpdateCarPrice(String car,int price) {
   String SOL = "UPDATE USEDCAR SET price=? where name=?";
   try {
       pstmt = con.prepareStatement(SQL);
       pstmt.setInt(1, price);
       pstmt.setString(2, car);
       pstmt.executeUpdate():
       System.out.println("가격수정의료");
      catch (SOLException e) {
       e.printStackTrace();
    return dtos:
public ArrayList<MemberVO> DeleteCar(String car) {
   String SQL = "DELETE FROM USEDCAR where name =?";
   try {
       pstmt = con.prepareStatement(SQL);
       pstmt.setString(1, car);
       pstmt.executeUpdate();
       System.out.println("삭제으로");
     catch (SQLException e) {
       e.printStackTrace();
   return dtos:
```

가격 조건검색

```
public ArrayList<MemberVO> BetweenSearchCar(int min,int max) {
   String SQL = "SELECT * FROM USEDCAR WHERE price>="+min+" and price<="+max;
    try |
        pstmt = con.prepareStatement(SQL);
        rs=st.executeQuery(SQL);
        while(rs.next()) {
           String company = rs.getString("COMPANY");
           String name = rs.getString("NAME");
           int price = rs.getInt("PRICE");
           int km = rs.getInt("KM");
           String color = rs.getString("COLOR");
           String engine =rs.getString("ENGINE");
           String accident =rs.getString("ACCIDENT");
           String buy date =rs.getString("BUY DATE");
           MemberVO VO-new MemberVO(company, name, price,
                       km, color, engine, accident, buy date);
            dtos.add(V0):
            pstmt.executeUpdate();
        System.out.println("里馬太朝 型量");
     catch (SQLException e) {
        e.printStackTrace();
    return dtos;
```

단어가 포함된 데이터 검색

```
public ArrayList<MemberVO> SearchCar(String CarName) {
   String SOL = "SELECT " FROM USEDCAR WHERE NAME LIKE "N"+CarName+"N";
   try {
       pstmt = con.prepareStatement(SQL);
       rs-st.executeQuery(5QL);
       while(rs.next()) {
           String company = rs.getString("COMPANY");
           String name = rs.getString("NAME");
           int price = rs.getInt("PRICE");
           int km = rs.getInt("KM");
           String color = rs.getString("COLOR");
           String engine -rs.getString("ENGINE");
           String accident =rs.getString("ACCIDENT");
           String buy date =rs.getString("BUY DATE");
           MemberVO VO-new MemberVO(company,name,price,km,color,engine,accident,buy_date);
           dtos.add(VO);
           pstmt.executeUpdate();
      catch (SQLException e) {
       e.printStackTrace();
    return dtos;
```

2-1. MemberVO

```
package dto:
public class MemberVO {
    private String company;
    private String name;
    private int price;
    private int km;
    private String color:
    private String engine;
    private String accident;
    private String date;
    public MemberVO(String company, String name, int price, int km,
            String color, String engine, String accident, String date)
        this.company=company;
        this name=name:
        this price-price;
        this.km=km:
       this color-color:
        this engine-engine;
        this.accident=accident;
        this.date=date:
    public void setCOMPANY(String company) {
        this.company=company;
    public String getCOMPANY() {
        return company;
    public void setNAME(String name) {
        this.name=name;
    public String getNAME() {
        return name;
```

```
public void setPRICE(int price) {
    this.price=price;
}
public int getPRICE() {
    return price;
}

public void setKM(int km) {
    this.km=km;
}

public int getKM() {
    return km;
}

public void setCOLOR(String color) {
    this.color=color;
}

public String getCOLOR() {
    return color;
}
```

```
public void setENGINE(String engine) {
    this.engine=engine;
}
public String getENGINE() {
    return engine;
}

public void setACCIDENT(String accident) {
    this.accident=accident;
}

public String getACCIDENT() {
    return accident;
}

public void setDATE(String date) {
    this.date=date;
}

public String getDATE() {
    return date;
}
```

3-1. MemberService

```
package service;
import java util ArrayList;
import dao MemberDAO:
import dto MemberVO;
public class MemberService {
   //dnom mo
    private MemberDAO dao:
    public MemberService() (
        dao=new MemberDAO();
    public ArrayList(MemberVO) getAllMembers(){
        return dao.getAllMembers();
    public ArrayList (Member VO) setMembers (String COMPANY, String NAME, int
            PRICE, int KM, String COLOR, String ENGINE, String ACCIDENT, String DATE) (
        return dao.setMembers(COMPANY, NAME, PRICE, KM, COLOR, ENGINE, ACCIDENT, DATE);
```

```
//ps ns ws "UPDATE USEDCAR SET "+car+"="+price+" where NAME = "+car
public ArrayList<MemberVO> UpdateCarPrice(String car,int price){
    return dao.UpdateCarPrice(car,price);
1/50 40 "DELETE FROM USEDCAR where name = "+car
public ArrayList<MemberVO> DeleteCar(String car) {
   return dao.DeleteCar(car);
//화장가전 조건 전쟁 "SELACT " FROM USEDCAR WHERE price="+min+" and price="+max;
public ArrayList<MemberVO> BetweenSearchCar(int min,int max){
   return dao.BetweenSearchCar(min, max);
//xsan are "Select * FROM USEDCAR WHERE NAME LIKE "%"+CarName+"%";
public ArrayList<MemberVO> SearchCar(String CarName){
    return dao.SearchCar(CarName);
```

4-1. HomeController

```
package Controller;
import java.util.ArrayList;
import java.util.Scanner;
import dto MemberVO;
import service MemberService;
public class HomeController (
    public static void main(String[] args)
       Scanner sc = new Scanner(System.in);
       ArrayList<MemberVO> dtos:
       MemberService service = new MemberService();
       int choice = 0;
       String company, name, color, engine, accident, buy date;
       int price, km;
       while(true)
            menu();
           choice = sc.nextInt();
           if(choice=1) {//== ==
               dtos=service.getAllMembers();
               for(int i=0; i<dtos.size(); i++) (
                   System.out.printf("HEARE:%s ", dtos.get(i).getCOMPANY());
                   System.out.printf("共享 旦豐豐:%s ", dtos.get(i).getNAME());
                   System.out.printf(">\a:%dg ", dtos.get(i).getPRICE());
                   System.out.printf("=gppe:%dkm ", dtos.get(1).getKM());
                   System.out.printf("42:%s ", dtos.get(i).getCOLOR());
                   System.out.printf("@# =#:%s ", dtos.get(i).getENGINE());
                   System.out.printf("() ###:%s ", dtos.get(i).getACCIDENT());
                   System.out.printf("page:%s \n", dtos.get(i).getDATE());
               dtos.clear():
               System.out.println("");
```

전체검색 select*from UsedCar;

4-2. HomeController

```
else if(choice==2) {
    int min, max;
   System.out.println("對金沙海:");
   min=sc.nextInt();
   System.out.print("ECTENT);
   max-sc.nextInt();
   dtos=service.BetweenSearchCar(min, max);
    for(int i=0; i<dtos.size(); i++) {
       System.out.printf("ALAM:%s ", dtos.get(i).getCOMPANY());
       System.out.printf("共享 里里亞:%s ", dtos.get(i).getNAME());
       System.out.printf("ya:%da ", dtos.get(i).getPRICE());
       System.out.printf("西餐料司:%dkm ", dtos.get(i).getKM());
       System.out.printf("#2:%s", dtos.get(i).getCOLOR());
       System.out.printf("@st ==:%s ", dtos.get(i).getENGINE());
       System.out.printf("APREE:%s", dtos.get(i).getACCIDENT());
       System.out.printf("aug:%s\n", dtos.get(i).getDATE());
   dtos clear();
else if(choice==3) { //n= =>
   System.out.print("제조사면 인근:");
   sc.nextLine();
   company-sc.nextLine();
   System.out.print("자랑 모델명 인력:");
   name=sc.next();
   System.out.print("가리 열점:");
   price=sc.nextInt():
   System.out.print("추워겨리 인근:");
    km=sc.nextInt();
   System.out.print("世聖 聖歌:");
   color=sc.next();
   System.out.print("明恩委員 聖歌:");
   engine=sc.next();
   System.out.print("从고유투 인력:");
   accident=sc.next();
   System.out.print("and get");
   buy_date=sc.next();
   service setMembers company, name, price, km,
           color, engine, accident, buy date);
```

조건검색(between A and B) select*from UsedCar where price between 1000 and 2000;

데이터 추가 insert into UsedCar values ('현대','악센트',930,28089,'쥐색', '가솔린','N','2017-07-13');

4-2. HomeController

```
else if(choice===) {
   System.out.print("차량 교명명 인력:");
   sc.nextLine():
   name=sc.nextLine():
   System.out.print("수정할 가격 입력:");
   price=sc.nextInt():
   service.UpdateCarPrice(name, price);
else if(choice==5) {
   System.out.print("자랑 모델및 연극:");
   name=sc.next();
   service.DeleteCar(name);
else if(choice==6) {
   System.out.println("차량 호텔명 일력:");
   name sc.next():
   dtos=service.SearchCar(name):
   for(int i=0; i<dtos.size(); i++) {
       System.out.printf(" | EUR: %s ", dtos.get(i).getCOMPANY());
       System.out.printf("声景 豆豆豆:%s ", dtos.get(i).getNAME());
       System.out.printf("ha:%da ", dtos.get(i).getPRICE());
       System.out.printf("stand: %dkm ", dtos.get(i).getKM());
       System.out.printf("#3:%s ", dtos.get(i).getCOLOR());
       System.out.printf("GRN SH:%s ", dtos.get(i).getENGINE());
       System.out.printf("Alge:%s", dtos.get(i).getACCIDENT());
       System.out.printf("ang:%s\n", dtos.get(i).getDATE());
   dtos.clear();
else if(choice==7) {
   break;
```

데이터 갱신

Update UsedCar set price=1500 where name='아반떼';

데이터 삭제

Delete from UsedCar where name='K5';

단어가 포함된 데이터 검색

Select*from UsedCar where name like '%"+CarName+"%'";

```
public static void menu() {
    System.out.println("1.모든 중고차 조회");
    System.out.println("2.조건 검색");
    System.out.println("3.중고차 추가");
    System.out.println("4.중고차 수정");
    System.out.println("5.중고차 삭제");
    System.out.println("6.차량 모델명 검색");
    System.out.println("7.중료");
}
}
```

2. DB 테이블 코드

```
SQL> create table UsedCar(
2 company varchar (20) NOT NULL,
3 name varchar2(20) NOT NULL,
4 price int NOT NULL,
5 km int NOT NULL,
6 color varchar2(20) NOT NULL,
7 engine varchar2(20) NOT NULL,
8 accident varchar2(20) NOT NULL,
9 constraint accidentr_ck check (accident in('y','n')),
10 buy_date date NOT NULL
11 );
테이블이 생성되었습니다.
```

테이블 생성

데이터 삽입

```
insert into UsedCar values ('erwa', 'SM3', 1250, 25938, 'am', 'nem', 'n', '2019-05-23');
insert into UsedCar values ('해당','안생들',930,28089,'희생','가슬리','n','2017-07-13');
insert into UsedCar values ('기아', '대통모병',750,32689, '베이지', '가슴티','n', '2017-01-05');
insert into UsedCar values ('#G','3L',2020,11755,'#*','C'#','n','2018-01-02');
insert into UsedCar values ('700',' 스포티지',1570,47260,' 호텔','미텔','n','2016-08-05');
insert into UsedCar values ('7|0+','K7',2690,36741,'35%','LPG','n','2018-02-23');
insert into UsedCar values ('GMDLR', 'CDDLA', 450, 39809, 'RM', 'LPG', 'n', '2015-11-16');
insert into UsedCar values ('mu','_aax|',1590,84167,'axw','LPG','n','2014-07-08');
insert into UsedCar values ('e-wa','OM6',2900,11,'qa','LPG','n','2021-05-14');
insert into UsedCar values ('如母','opema',2560,8604,'司母','由何里君臣','y','2021-04-02');
insert into UsedCar values ('¬¡o¡','K5',920,112281,'«¡⊴','a¡o¡⇔ᡓ¡c','n','2012-11-28');
insert into UsedCar values ('フォロド,'☆ಱ・ছ',4600,19,'ᢐスシャメ','ธ๗๒๓๒','n','2020-08-10');
insert into UsedCar values ('ˈw̪a',ˈə̪ਲ̪c',2149,41945,'ˌn̪a','c̩a̩','n','2019-08-30');
insert into UsedCar values ('ap','zp',1190,124316,'abd','p'd','n','2015-09-10');
insert into UsedCar values ('배조', 'GLA를레스', 5200,9664, '취색', '기술티','n', '2020-11-24');
insert into UsedCar values ('អ្ន', អ្នាម្សាន្តក្នុង',2280,2124, ន្ទគ្គ',"កុខ្លុង',"ក',"2020-03-04');
insert into UsedCar values ('Augus','670',3650,25237,'814','71481','n','2019-02-19');
insert into UsedCar values ('BMW','F30',1620,107650,'aw','pa','n','2014-08-19');
insert into UsedCar values ('해다', 'YF소니타',380,199724, '건정', '기술리','이', '2009-12-23');
insert into UsedCar values ('꿰너지스','670',3520,66068,'건정','가울리','n','2018-05-08');
insert into UsedCar values ('엠보레','데유 로스카',109,166642,'컨텀','가슬리','y','2006-05-04');
insert into UsedCar values ('జੁజੂజ్జ్','5M5뉴워프레션',150,250735,'유션','기술리','n','2007-07-23');
insert into UsedCar values ('京西福','河内州(2州山)',7630,93247,'司福','河南南','n','2021-03-26');
insert into UsedCar values ('BMW','X4M',8200,19100,'취생','가술리','n','2020-05-29');
insert into UsedCar values ('வுட்சுய','அவுர்சய',17950,23000,'வும்,'நடிய','நட்டு','வ','2018-11-21'):
```

3. 실행결과

1-1. JAVA 실행화면



모두 조회: Select*from UsedCar;

1-2. JAVA 실행화면



조건 검색

Select*from UsedCar where price between 1000 and 2000; Select*from UsedCar where price>=1000 and price<=2000;

1-3. JAVA 실행화면

```
1.모든 중고차 조회
2.조건 검색
3.중고차 추가
4. 중고차 수정
5.중고차 삭제
6.차량 모델명 검색
7. 종료
차량 모델명 입력:
그랜저
제조사명:현대 차량 모델명:그랜저 가격:1590원 주행거리:84167km 색깔:검정색 엔진 종류:LPG
1.모든 중고차 조회
2.조건 검색
3. 중고차 추가
4. 중고차 수정
5.중고차 삭제
6.차량 모델명 검색
7. 중료
```

조건검색

Select*from UsedCar where name like '그랜저';

