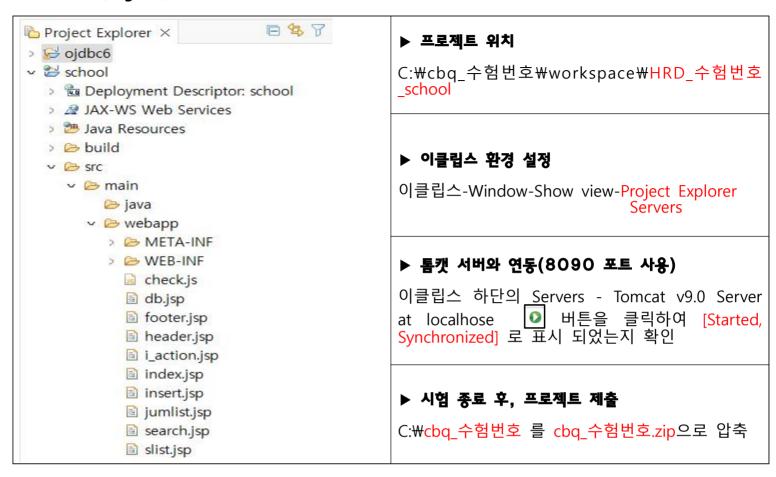
## 2024년 5월 정보처리산업기사 과정형평가 대비 ①

## ■ 수강신청(Register) 시스템 프로젝트 파일 구조 ■



## ■ 수강신청(Register) 시스템 프로젝트 준비 작업 ■

순서	내 용
1	메모장 열어서 SQL 쿼리 작성하고 명령프롬프트 창에 <b>복사/붙여넣기</b> (테이블 생성, 데이터 입력)
	CREATE TABLE 테이블이름(         애트리뷰트1이름 형태(길이)       애트리뷰트2이름 형태(길이)         애트리뷰트3이름 형태(길이)       <= 기본키가 2개일때는 primary key(이름1, 이름2)
	명령프롬프트에서 sqlplus system/1234 입력하고 SQL 쿼리 각각 블록지정해서 복사-붙여넣기 해서 입력 SQL 끝나고 나갈때 <u>COMMIT;</u>
2	이클립스(작업영역 위치: C:₩cbq_학번₩workspace) FILE-NEW-DYNAMIC WEP PROJECT (Project name: <b>hrd_학번_register</b> ) 로 프로젝트 생성
	C₩oraclexe₩app₩oracle₩product₩11.2.0₩server₩jdbc₩lib₩odjbc6.jar 파일을 <u>복사</u> 해서 프로젝트 wep-inf₩lib 에 <b>붙여넣기</b>

이클립스-window-preferences- jsp, html. css, spelling, workspace 5가지를 검색하여 Encoding을 UTF-8로 변경하여 한글이 깨지지 않도록 함.

```
SOL
create table tbl student 202210(
        stuid char(8) not null primary key.
        sname varchar2(20),
        dept_name varchar2(20),
        jumin char(13).
        phone char(13).
        email char(30)
);
create table tbl_score_202210(
        sid char(8) not null primary key.
        subcode char(4).
        midscore number.
        finalscore number.
        attend number.
        report number,
        etc number
);
create table tbl_subject_202210(
        subcode char(4) not null primary key.
        subname varchar2(30),
        proname varchar2(20)
);
                                        tbl_student_202210
                                                                          values('20220011','김한국','사회복지과
insert
                     into
'.'0301013111111','010-1111-1111','hankuk@naver.com');
                                                                              values('20220012','홍길동','관광과
insert
                      into
                                          tbl_student_202210
'.'0202013222222'.'010-2222-2222'.'hongkil@naver.com');
insert
                                       tbl student 202210
                                                                        values('20220013','김미자','패션디자인과
                    into
','0203014333333','010-3333-3333','kimja@naver.com');
insert
                     into
                                        tbl_student_202210
                                                                          values('20220014','윤한얼','물리치료과
','0204014444444','010-4444-4444','yoon@naver.com');
insert
                                        tbl_student_202210
                                                                          values('20220015','김성진','모던음악과
                     into
','0205013555555','010-5555-5555','kimsj@naver.com');
insert
                                          tbl_student_202210
                                                                              values('20220016','조민지','건축과
                      into
'.'0206014666666','010-6666-6666','jmg@naver.com');
insert into tbl_score_202210 values('20220011','A001',80,90,100,100,100);
insert into tbl_score_202210 values('20220012','A001',85,90,90,90,80);
insert into tbl_score_202210 values('20220013','A001',75,90,80,77,80);
insert into tbl_score_202210 values('20220014','A001',90,90,100,100,70);
insert into tbl_score_202210 values('20220015', 'A002', 70, 70, 80, 80, 90);
insert into tbl_score_202210 values('20220016','A002',96,95,100,100,90);
insert into tbl_subject_202210 values('A001','자바','정명석');
insert into tbl_subject_202210 values('A002','C언어','김미숙');
```

## 3학년 응용프로그래밍개발

insert into tbl\_subject\_202210 values('A003','데이터베이스','서길동'); insert into tbl\_subject\_202210 values('A004','웹프로그래밍','이건원'); insert into tbl\_subject\_202210 values('A005','영어','박태민');

```
header.jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<header style="position:fixed; top:0px; left:0px; width:100%; height:40px; line-height:40px;</pre>
background-color: orange; text-align: center; font-size: 20px">
<b>(과정평가형 정보처리산업기사)학생 성적처리 프로그램 ver 2022-10 </b>
</header>
<nav style="position:fixed; top:40px; left:0px; width:100%; height:30px; line-height:30px;</pre>
background-color: pink; padding-left: 20px">
vackground-color. pink. padding-left: 20px'>
<a href="slist.jsp">학생현황</a> &nbsp; &nbsp;
<a href="insert.jsp">성적입력</a> &nbsp; &nbsp;
<a href="jumlist.jsp">성적현황</a> &nbsp; &nbsp;
<a href="search.jsp">과목별성적</a> &nbsp; &nbsp;
<a href="index.jsp">홈으로</a>
</nav>
</body>
</html>
```

```
footer.jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<footer style="position: fixed; bottom: 0px; left: 0px; width: 100%; height: 30px; line-height: 30px;
background-color: orange; text-align: center">
HRDKOREA Copyright@2022 All rights reserved. Human Resources Development Service of Korea
</footer>
</body>
</html>
```

```
index.jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<jsp:include page="header.jsp"></jsp:include>
<section style="position:fixed; top:70px; left:0px; width:100%; height:100%;</pre>
background-color: lightgray">
<h2 style="text-align: center"> 과정평가형 자격 CBQ </h2>
국가직무능력표준(NSC:National <u>Competency</u> Standards)으로 설계된 교육·훈련과정을 충실히 이수한 후, 내부/외부
평가를 거쳐 일정 합격기준을 충족하는 교육·훈련생에게 국가기술자격을 부여하는 제도<br/>br><
산업현장 중심의 교육평가 더 커지는 능력!<br>알고 있는 것에 할 수 있는 것을 더하는<br>> 과정 평가형 자격은<br>> 한장 중심형 인재육성을 지원합니다.
</b>
</section>
<jsp:include page="footer.jsp"></jsp:include>
</body>
</html>
```

```
slist.jsp
<%@ include file="db.jsp" %>
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
   pageEncoding="UTF-8"%>
<!DOCTYPE html> <html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<jsp:include page="header.jsp"></jsp:include>
<section style="position:fixed; top:70px; left:0px; width:100%; height:100%;</pre>
background-color: lightgray">
style="text-align: center"> 학생정보현황 </h2>
 학번 
                       기급 (/td/
 이름 
 주민번호 
                       학과명 

 학과명 

                       전화번호 
                      이메일 
              request.setCharacterEncoding("UTF-8");
try{
       String sql="SELECT stuid, sname, jumin, dept_name, jumin, phone, email "+ "FROM tbl_student_202210";
       PreparedStatement pstmt = con.prepareStatement(sql);
       ResultSet rs = pstmt.executeQuery();
       while(rs.next()){
              String jumin = rs.getString(3);
              String jumin2 = jumin.substring(0, 6) + "-" + jumin.substring(6, 13);
              String gender = jumin.substring(6, 7); //3 or 4 if(gender.equals("3")) gender="남자";
              else gender="여자";
              %>
               <%=rs.getString(1) %> 
                       <%=rs.getString(2) %> 
                       <%=jumin2 %> 
                       <%=rs.getString(4) %> 
                       <%=gender %> 
                       <%=rs.getString(6) %> 
                       <%=rs.getString(7) %> 
              }
catch(Exception e){
       e.printStackTrace();
%>
       </form>
</section>
<isp:include page="footer.isp"></isp:include>
</body>
</html>
```

```
insert.jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
          pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<jsp:include page="header.jsp"></jsp:include>
<script type="text/javascript" src="check.js"></script>
<section style="position: fixed; top: 70px; left: 0px; width: 100%; height: 100%;</pre>
background-color: lightgray">
<h2 style="text-align:center"> 성적입력 </h2>
<form action="i_action.jsp" name="frm" style="display:flex; align-items:center; justify-content:center;</pre>
text-align: center">
                      학번 
                                                              <input type="text" name="sid"> 
                                          교과코드 
                                                              >
                                                                                  <select name="subcode">
                                                                                                      **Application value **App
                                                                                  </select>
                                                               중간 
                                                              <input type="number" name="midscore"> 
                                          기말 
                                                              <input type="number" name="finalscore"> 
                                          출석 
                                                              <input type="number" name="attend"> 
                                          레포트 
                                                              <input type="number" name="report"> 
                                          기타 
                                                               <input type="number" name="etc"> 
                                         <input type="button" value="등록" onclick="add()">
<input type="button" value="다시쓰기" onclick="res()">
                                                              </form>
</section>
<jsp:include page="footer.jsp"></jsp:include>
</body>
</html>
```

```
i_action.jsp
<%@ include file="db.jsp" %>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
request.setCharacterEncoding("UTF-8");
String sid = request.getParameter("sid");
String subcode = request.getParameter("subcode");
String midscore = request.getParameter("midscore");
String finalscore = request.getParameter("finalscore");
String attend = request.getParameter("attend");
String report = request.getParameter("report");
String etc = request.getParameter("etc");
try{
           String sql="INSERT INTO tbl_score_202210 values(?,?,?,?,?,?)";
          PreparedStatement pstmt = con.prepareStatement(sql);
          pstmt.setString(1, sid);
pstmt.setString(2, subcode);
pstmt.setString(3, midscore);
          pstmt.setString(4, finalscore);
          pstmt.setString(5, attend);
          pstmt.setString(6, report);
pstmt.setString(7, etc);
          pstmt.executeUpdate();
catch(Exception e){
          e.printStackTrace();
%>
<jsp:forward page="insert.jsp"></jsp:forward>
```

check.js

```
function add(){
        if(frm.sid.value.length==0){
alert("학번이 입력되지 않았습니다!");
                  frm.sid.focus();
                  return false;
         }
         else if(frm.midscore.value.length==0){
    alert("중간고사는 숫자가 아니거나 입력하지 않았습니다!");
    frm.midscore.focus();
                  return false;
         else if(frm.finalscore.value.length==0){
    alert("기말고사는 숫자가 아니거나 입력하지 않았습니다!");
                  frm.finalcore.focus();
                  return false;
         else if(frm.attend.value.length==0){
alert("출석은 숫자가 아니거나 입력하지 않았습니다!");
                  frm.attend.focus();
                  return false;
         else if(frm.report.value.length==0){
                  alert("레포트는 숫자가 아니거나 입력하지 않았습니다!");
                  frm.report.focus();
                  return false;
         else if(frm.etc..value.length==0){
                  alert("기타는 숫자가 아니거나 입력하지 않았습니다!"); frm.etc.focus();
                  return false;
         }
         else{
                  alert("성적정보가 정상적으로 등록되었습니다!");
                  document.frm.submit();
                  return true;
```

```
function res(){
    alert("정보를 지우고 처음부터 다시 입력합니다!");
    document.frm.reset();
}

function search(){
    document.frm2.submit();
}
```

```
jumlist.jsp

<%@ include file="db.jsp" %>
<%@ page language= java "contentType="text/html: charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<html>

 <head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
 <jsp:include page="header.jsp"></jsp:include>
request.setCharacterEncoding("UTF-8");
                   String sql="SELECT st.stuid, sname, subname, sc.subcode, proname, midscore, finalscore, attend,
                 "(midscore*0.3)+(finalscore*0.3)+(attend*0.2)+(report*0.1)+(etc*0.1),'

"(midscore*0.3)+(finalscore*0.3)+(attend*0.2)+(report*0.1)+(etc*0.1),'

"FROM tbl_student_202210 st, tbl_score_202210 sc, tbl_subject_202210 su "+

"WHERE st.stuid=sc.sid AND sc.subcode=su.subcode "+

"ORDER BY sname;

PreparedStatement pstmt = con.prepareStatement(sql);

ResultSet rs = pstmt.executeQuery();

while(rs.next()){

int sum = rocal/
report, etc.
                                                            "TO_CHAR((midscore+finalscore+attend+report+etc)/5,'999'), "+"TO_CHAR((midscore*0.3)+(finalscore*0.3)+(attend*0.2)+(report*0.1)+(etc*0.1),'999.0'),
"+
                                   inext()){
int sum = rs.getInt(13);
String grade;
if(sum>=95) grade="A+";
else if(sum>=90) grade="A";
else if(sum>=85) grade="B+";
else if(sum>=85) grade="B+";
else if(sum>=75) grade="C+";
else if(sum>=70) grade="C+";
else if(sum>=65) grade="D+";
else grade="F";
                                                      <%=rs.getString(1)
<td> <%=rs.getString(2)
<td> <%=rs.getString(2)
<td> <%=rs.getString(3)
<td> <%=rs.getString(4)
<td> <%=rs.getString(5)
<td> <%=rs.getString(6)
<td> <%=rs.getString(7)
<td> <%=rs.getString(7)
<td> <%=rs.getString(8)
<td> <%=rs.getString(9)
<td> <%=rs.getString(10)
<td> <%=rs.getString(11)
<td> <%=rs.getString(11)
<td> <%=rs.getString(12)
<td> <%=grade  </td>
                                    ʻtd>
                                    }
%>
                  </form> </section>
 <jsp:include page="footer.jsp"></jsp:include>
</body>
</html>
```

```
search.jsp
<%@ include file="db.jsp" %>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<script type="text/javascript" src="check.js"></script>
<jsp:include page="header.jsp"></jsp:include>
<section style="position: fixed; top: 70px; left: 0px; width: 100%; height: 100%;</pre>
background-color: lightgray">
 <h2 style="text-align:center"> 과목별 성적조회 </h2>
<form name="frm2" style="display:flex; align-items:center; justify-content:center; text-align:center">
        과목코드 
                       <input type="text" name= "subcode"> 
                       <input type="button" value="조회" onclick="search()"> 
               </form>
<br><br><
<form style="display:flex; align-items:center; justify-content:center; text-align:center">
        학번 
                        과목
                                 중간 
                        출석
                                 레포트 
                       기타 
                        총점  총점  학점 
               request.setCharacterEncoding("UTF-8");
String subcode = request.getParameter("subcode");
try{
       String sql="SELECT st.stuid, sname, dept_name, subname, midscore, finalscore, attend, report, etc,
                          "TO_CHAR(midscore*0.3 + finalscore*0.3 + attend*0.2 + report*0.1 + etc*0.1,
'999.0'), "+
                          "midscore*0.3 + finalscore*0.3 + attend*0.2 + report*0.1 + etc*0.1 "+
                          "FROM tbl_student_202210 st, tbl_score_202210 sc, tbl_subject_202210 su "+
                          "WHERE st.stuid=sc.sid AND sc.subcode=su.subcode AND sc.subcode=?
       PreparedStatement pstmt = con.prepareStatement(sql);
       pstmt.setString(1, subcode);
       ResultSet rs = pstmt.executeQuery();
       while(rs.next()){
               int sum = rs.getInt(11);
               String grade;
               if(sum>=95) grade="A+";
               else if(sum>=90) grade="A";
               else if(sum>=85) grade="B+";
               else if(sum>=80) grade="B":
               else if(sum>=75) grade="C+";
               else if(sum>=70) grade="C";
               else if(sum>=65) grade="D+";
               else if(sum>=60) grade="D";
               else grade="F";
               %>
                <%=rs.getString(1) %> 
                        <%=rs.getString(2) %> 
                       <%=rs.getString(3) %> 
                        <%=rs.getString(4) %>
```