

통합 구현

데이터조작 프로시저 작성

직원 테이블 생성(Employee)

```
1 #직원 테이블 생성
2 CREATE TABLE `Employee` (
3     `uid`      VARCHAR(10) PRIMARY KEY,
4     `name`     VARCHAR(10),
5     `gender`   INT,
6     `hp`       CHAR(13),
7     `email`    VARCHAR(30),
8     `pos`      VARCHAR(10),
9     `dep`      INT,
10    `rdate`    datetime
11 );
12
13 INSERT INTO `Employee` VALUES ('a101', '김유신', 1, '010-1234-1111',
14                                'kysin@naver.com', '과장', 102, '2020-12-03 13:06:12');
15 INSERT INTO `Employee` VALUES ('a102', '김춘추', 1, '010-1234-1002',
16                                'kimcc@gmail.com', '대리', 105, '2020-12-03 13:07:33');
```

yym10618.Employee: 2 행 (총) (대략적)

uid	name	gender	hp	email	pos	dep	rdate
a101	김유신	1	010-1234-1111	kysin@naver.com	과장	102	2020-12-03 13:06:12
a102	김춘추	1	010-1234-1002	kimcc@gmail.com	대리	105	2020-12-03 13:07:33

직원 등록 페이지

```
1 <%@ page contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
2 <!DOCTYPE html>
3 <html>
4   <head>
5     <meta charset="UTF-8"/>
6     <title>register</title>
7   </head>
8   <body>
9     <h3>Employee 등록</h3>
10    <a href="./list.jsp">직원목록</a>
11
12    <form action="./proc/registerProc.jsp">
13      <table border="1">
14        <tr>
15          <td>아이디</td>
16          <td><input type="text" name="uid"/></td>
17        </tr>
18        <tr>
19          <td>이름</td>
20          <td><input type="text" name="name"/></td>
21        </tr>
22        <tr>
23          <td>성별</td>
24          <td>
25            <label><input type="radio" name="gender" value="1"/>남</label>
26            <label><input type="radio" name="gender" value="2"/>여</label>
27          </td>
28        </tr>
29        <tr>
30          <td>휴대폰</td>
31          <td><input type="text" name="hp"/></td>
32        </tr>
33        <tr>
34          <td>이메일</td>
35          <td><input type="text" name="email"/></td>
36        </tr>
```

```
37      <td>직급</td>
38      <td>
39        <select name="pos">
40          <option>사원</option>
41          <option>대리</option>
42          <option>과장</option>
43          <option>차장</option>
44          <option>부장</option>
45        </select>
46      </td>
47    </tr>
48    <tr>
49      <td>부서</td>
50      <td>
51        <select name="dep">
52          <option>영업1부</option>
53          <option>영업2부</option>
54          <option>영업3부</option>
55          <option>영업4부</option>
56          <option>인사부</option>
57        </select>
58      </td>
59    </tr>
60    <tr>
61      <td colspan="2">
62        <input type="submit" value="등록하기"/>
63      </td>
64    </tr>
65  </table>
66 </form>
67 </body>
68 </html>
```

Employee 등록

직원목록

아이디	<input type="text"/>
이름	<input type="text"/>
성별	<input type="radio"/> 남 <input type="radio"/> 여
휴대폰	<input type="text"/>
이메일	<input type="text"/>
직급	<input type="text" value="사원"/>
부서	<input type="text" value="영업1부"/>
<input type="button" value="등록하기"/>	

직원 목록 페이지

```
1 package bean;
2
3 public class EmployeeBean {
4
5     private String uid;
6     private String name;
7     private int gender;
8     private String hp;
9     private String email;
10    private String pos;
11    private int dep;
12    private String rdate;
13
14    public String getUid() {
15        return uid;
16    }
17    public void setUid(String uid) {
18        this.uid = uid;
19    }
20    public String getName() {
21        return name;
22    }
23    public void setName(String name) {
24        this.name = name;
25    }
26    public int getGender() {
27        return gender;
28    }
29    public void setGender(int gender) {
30        this.gender = gender;
31    }
32    public String getHp() {
33        return hp;
34    }
35    public void setHp(String hp) {
36        this.hp = hp;
37    }
```

```
38    public String getEmail() {
39        return email;
40    }
41    public void setEmail(String email) {
42        this.email = email;
43    }
44    public String getPos() {
45        return pos;
46    }
47    public void setPos(String pos) {
48        this.pos = pos;
49    }
50    public int getDep() {
51        return dep;
52    }
53    public void setDep(int dep) {
54        this.dep = dep;
55    }
56    public String getRdate() {
57        return rdate;
58    }
59    public void setRdate(String rdate) {
60        this.rdate = rdate;
61    }
62 }
```

데이터 get, set 을 위해
EmployeeBean.java 클래스 생성

직원 목록 페이지

```
1 <%@page import="java.sql.ResultSet"%>
2 <%@page import="java.sql.Statement"%>
3 <%@page import="java.sql.DriverManager"%>
4 <%@page import="java.sql.Connection"%>
5 <%@page import="java.util.ArrayList"%>
6 <%@page import="bean.EmployeeBean"%>
7 <%@page import="java.util.List"%>
8 <% page contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
9
10 //데이터베이스 정보
11 String host = "jdbc:mysql://54.180.134.197:3306/yym10618";
12 String user = "test";
13 String pass = "1234";
14 List<EmployeeBean> worker = new ArrayList<>(); // EmployeeBean 리스트 생성
15
16 try{
17     // 1단계 - JDBC 드라이버 로드
18     Class.forName("com.mysql.jdbc.Driver");
19
20     // 2단계 - 데이터베이스 접속
21     Connection conn = DriverManager.getConnection(host, user, pass);
22
23     // 3단계 - SQL실행객체 생성(Statement)
24     Statement stmt = conn.createStatement();
25
26     // 4단계 - Employee table 조회
27     String sql = "SELECT * FROM 'Employee'";
28     ResultSet rs = stmt.executeQuery(sql);
29
30     // 5단계
31     while(rs.next()){
32         // 자바빈 생성 및 데이터 저장
33         EmployeeBean eb = new EmployeeBean();
34         eb.setUid(rs.getString(1));
35         eb.setName(rs.getString(2));
36         eb.setGender(rs.getInt(3));
37         eb.setHp(rs.getString(4));
38         eb.setEmail(rs.getString(5));
39         eb.setPos(rs.getString(6));
40         eb.setDep(rs.getInt(7));
41         eb.setRdate(rs.getString(8));
42
43         // 리스트 추가
44         worker.add(eb);
45     }
46
47     // 6단계 - 종료
48     conn.close();
49
50 }catch(Exception e){
51     e.printStackTrace();
52 }
53
54 }
55 %>
```

```
59 <head>
60 <meta charset="UTF-8"%>
61 <title>list</title>
62 </head>
63 <body>
64 <h3>Employee 목록</h3>
65 <a href="/register.jsp">직원등록</a>
66 <table border="1">
67 <tr>
68 <th>아이디</th>
69 <th>이름</th>
70 <th>성별</th>
71 <th>휴대폰</th>
72 <th>이메일</th>
73 <th>직급</th>
74 <th>부서</th>
75 <th>입사일</th>
76 </tr>
77 <% for(EmployeeBean eb : worker){ %>
78 <tr>
79 <td><%= eb.getUid() %></td>
80 <td><%= eb.getName() %></td>
81 <td>
82 <%
83     switch(eb.getGender()){
84     case 1:
85         out.println("남");
86         break;
87     case 2:
88         out.println("여");
89         break;
90     }
91 %>
92 </td>
93 <td><%= eb.getHp() %></td>
94 <td><%= eb.getEmail() %></td>
95 <td><%= eb.getPos() %></td>
96 <td>
97 <%
98     switch(eb.getDep()){
99     case 101:
100         out.println("영업1부");
101         break;
102     case 102:
103         out.println("영업2부");
104         break;
105     case 103:
106         out.println("영업3부");
107         break;
108     case 104:
109         out.println("영업4부");
110         break;
111     case 105:
112         out.println("인사부");
113         break;
114     }
115 %>
116 </td>
117 <td><%= eb.getRdate().substring(0, 10) %></td>
```

Employee 목록

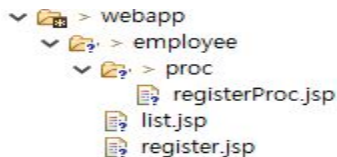
직원등록

아이디	이름	성별	휴대폰	이메일	직급	부서	입사일
a101	김유신	남	010-1234-1111	kysin@naver.com	과장	영업2부	2020-12-03
a102	김준추	남	010-1234-1002	kimcc@gmail.com	대리	인사부	2020-12-03

int 데이터를 문자타입으로
출력하기 위해 변환

입사일을 일까지만 표시하기 위해
substring 사용

직원 등록 기능



```
1 <%@page import="java.sql.PreparedStatement"%>
2 <%@page import="java.sql.DriverManager"%>
3 <%@page import="java.sql.Connection"%>
4 <%@ page contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
5 <%
6     // 전송 데이터 수신
7     request.setCharacterEncoding("utf-8");
8     String uid   = request.getParameter("uid");
9     String name  = request.getParameter("name");
10    String gender = request.getParameter("gender");
11    String hp     = request.getParameter("hp");
12    String email  = request.getParameter("email");
13    String pos    = request.getParameter("pos");
14    String dep    = request.getParameter("dep");
15
16    // 데이터베이스 작업
17    String host = "jdbc:mysql://54.180.134.197:3306/yym0618";
18    String user = "test";
19    String pass = "1234";
20
21    try{
22        Class.forName("com.mysql.jdbc.Driver");
23        Connection conn = DriverManager.getConnection(host, user, pass);
24        String sql = "INSERT INTO `Employee` VALUES (?, ?, ?, ?, ?, ?, ?, NOW())";
25        PreparedStatement psmt = conn.prepareStatement(sql);
26        psmt.setString(1, uid);
27        psmt.setString(2, name);
28        psmt.setString(3, gender);
29        psmt.setString(4, hp);
30        psmt.setString(5, email);
31        psmt.setString(6, pos);
32        psmt.setString(7, dep);
33
34        psmt.executeUpdate();
35        conn.close();
36
37    }catch(Exception e){
38        e.printStackTrace();
39    }
40
41    // 직원목록 이동
42    response.sendRedirect("../list.jsp");
43 %>
```

데이터베이스에 입력할 정보 세팅