

[VO]

```
package rK.smetsysesor.hye.VO;
```

```
import java.util.Date;
```

```
public class BaseBoardVO {
```

```
    private int idx; // -- IDX
```

```
    private int num; // -- 재정렬 위한 컬럼
```

```
    private String title; // -- TITLE
```

```
    private String content; // -- CONTENT
```

```
    private String writer; // -- WRTIER
```

```
    private Date regDate; // -- REG_DATE
```

```
    private Date modDate; // -- MOD_DATE
```

```
    private int view; // -- VIEWCOUNT(조회수)
```

```
    public int getIdx() { return idx; }
```

```
    public void setIdx(int idx) { this.idx = idx; }
```

```
    public int getNum() { return num; }
```

```
    public void setNum(int num) { this.num = num; }
```

```
    public String getTitle() { return title; }
```

```
    public void setTitle(String title) { this.title = title; }
```

```
    public String getContent() { return content; }
```

```
    public void setContent(String content) { this.content = content; }
```

```
    public String getWriter() { return writer; }
```

```
    public void setWriter(String writer) { this.writer = writer; }
```

```
    public Date getRegDate() { return regDate; }
```

```
    public void setRegDate(Date regDate) { this.regDate = regDate; }
```

```
    public Date getModDate() { return modDate; }
```

```
    public void setModDate(Date modDate) { this.modDate = modDate; }
```

```
    public int getView() { return view; }
```

```
    public void setView(int view) { this.view = view; }
```

```
}
```

[1. 게시판 만들기]

```
<mapper namespace="rk.smetsysesor.hye.mapper.BaseMapper">

<!-- public ArrayList<BaseBoardVO> getList(); -->
<select id="getList" resultType="rk.smetsysesor.hye.VO.BaseBoardVO">
    SELECT TITLE, WRITER, REGDATE FROM BASEBOARD ORDER BY IDX DESC;
</select>

    @Override
    // public ArrayList<BaseBoardVO> getList();
    public ArrayList<BaseBoardVO> getList() {
        return baseMapper.getList();
    }

    // 글 목록
    @RequestMapping(value="/", method= RequestMethod.GET)
    public String list(Model model) {
        model.addAttribute("boardList", baseService.getList());
        return "list";
    }

<!-- public void write(BaseBoardVO baseBoardVO); -->
<insert id="write">
    INSERT INTO BASEBOARD (TITLE, CONTENT, WRITER, REGDATE)
    VALUES (#{title}, #{content}, "ADMIN", now())
</insert>

    @Override
    // public void write(BaseBoardVO baseBoardVO);
    public void write(BaseBoardVO baseBoardVO) {
        baseMapper.write(baseBoardVO);
    }

    // 글 작성
    @RequestMapping(value="/write", method= RequestMethod.GET)
    public void write() {}

    // 글 작성 후
    @RequestMapping(value="/write", method= RequestMethod.POST)
    public String write(BaseBoardVO baseBoardVO, RedirectAttributes rttr) {
        baseService.write(baseBoardVO);
        // rttr.addFlashAttribute("result", baseBoardVO.getBoardIdx());
        return "redirect:/";
    }
}
```

```

<!-- public BaseBoardVO read(int idx); -->
<select id="view" resultType="rk.smetsysesor.hye.VO.BaseBoardVO">
    SELECT IDX, TITLE, CONTENT FROM BASEBOARD WHERE IDX = #{idx}
</select>

```

```

@Override
// public BaseBoardVO view(int idx);
public BaseBoardVO view(int idx) {
    return baseMapper.view(idx);
}

```

```

@RequestMapping(value= {"/view", "/update"}, method=RequestMethod.GET)
public void view(@RequestParam("idx") int idx, Model model) {
    // BaseBoardVO print = baseService.read(idx);
    // System.out.println(print.getContent());
    model.addAttribute("board1", baseService.view(idx));
}

```

```

<!-- public void delete(int idx); -->
<delete id="delete">
    DELETE FROM BASEBOARD WHERE IDX = #{idx}
</delete>

```

```

@Override
// public void delete(int idx);
public void delete(int idx) {
    baseMapper.delete(idx);
}

```

```

@RequestMapping(value="/delete", method=RequestMethod.POST)
public String delete(@RequestParam("idx") int idx, RedirectAttributes rttr) {
    baseService.delete(idx);
    return "redirect:/";
}

```

```

<!-- public int update(BaseBoardVO baseBoardVO); -->
<update id="update" >
    UPDATE BASEBOARD
    SET TITLE = #{title}, CONTENT = #{content}, MODDATE = now()
    WHERE IDX = #{idx}
</update>

@Override
// public boolean update(BaseBoardVO baseBoardVO);
public boolean update(BaseBoardVO baseBoardVO) {
    return baseMapper.update(baseBoardVO) == 1;
}

@RequestMapping(value="/update", method=RequestMethod.POST)
public String update(BaseBoardVO baseBoardVO) {
    baseService.update(baseBoardVO);
    return "redirect:/";
}

```

[PagingBase]

```
package rK.smetsysesor.hye.VO;
```

```
public class PagingBase {  
    private int page; // 페이지번호  
    private int perPageNum; // 페이지당 보여지는 게시물 수  
    private int pageStart; // 시작 번호 1, 11, 21  
  
    public PagingBase() { this.page = 1;  
                        this.perPageNum = 10; }  
    public int getPage() { return page; }  
    public void setPage(int page) {  
        if (page <= 0) { this.page = 1; return; }  
        this.page = page;  
    }  
    public int getPageStart() { //시작번호 = (페이지번호 - 1)*페이지당 보여지는 개수  
        pageStart = (this.page - 1) * perPageNum;  
        return pageStart;  
    }  
    public void setPageStart(int pageStart) { this.pageStart = pageStart; }  
    public int getPerPageNum() { return this.perPageNum; }  
    public void setPerPageNum(int perPageNum) {  
        if (perPageNum <= 0 || perPageNum > 100) {  
            this.perPageNum = 10; return;  
        }  
        this.perPageNum = perPageNum;  
    }  
    @Override  
    public String toString() {  
        return "Criteria [page=" + page + ", perPageNum=" + perPageNum + ",  
                pageStart=" + pageStart + "];"  
    }  
}
```

[PagingCalc]

```
package rk.smetsysesor.hye.VO;
```

```
import org.springframework.web.util.UriComponents;
```

```
import org.springframework.web.util.UriComponentsBuilder;
```

```
public class PagingCalc {  
    private PagingBase pagingBase;  
    private int totalCount;  
    private int startPage;  
    private int endPage;  
    private boolean prev;  
    private boolean next;  
    private int displayPageNum = 10; // 화면에 보여지는 페이지 번호의 숫자.  
  
    public PagingBase getPagingBase() { return pagingBase; }  
    public void setPagingBase(PagingBase pagingBase) {  
        this.pagingBase = pagingBase;  
    }  
    public int getTotalCount() { return totalCount; }  
    public void setTotalCount(int totalCount) {  
        this.totalCount = totalCount;  
        calcData(); // 한 라인에 보여줄 displayPageNum 계산 (1-10, 11-20, 21-30)  
    }  
    public int getStartPage() { return startPage; }  
    public void setStartPage(int startPage) { this.startPage = startPage; }  
  
    public int getEndPage() { return endPage; }  
    public void setEndPage(int endPage) { this.endPage = endPage; }  
  
    public boolean isPrev() { return prev; }  
  
    public boolean isNext() { return next; }  
  
    public int getDisplayPageNum() { return displayPageNum; }  
}
```

```

// 한 라인에 보여줄 displayPageNum 계산 (1-10, 11-20, 21-30)
private void calcData() {
    // 페이지 나열자의 10번째 번호 = 현재페이지 / 보여줄 페이지수 * 보여줄 페이지수
    endPage = (int) (Math.ceil((pagingBase.getPage() / (double) displayPageNum)
        * displayPageNum));
    startPage = (endPage - displayPageNum) + 1;
    // endPage가 10 단위가 아닐 때
    int tempEndPage = (int) (Math.ceil((totalCount
        / (double) pagingBase.getPerPageNum()));

    if (endPage > tempEndPage) {
        endPage = tempEndPage;
    }

    prev = ( startPage == 1 ) ? false : true;
    next = ( endPage * pagingBase.getPerPageNum() >= totalCount ) ? false : true;
}

public String makeQuery(int page) {
    UriComponents uriComponents
    = UriComponentsBuilder.newInstance()
        .queryParams("page", page)
        .queryParams("perPageNum", pagingBase.getPerPageNum()).build();

    String strTemp = uriComponents.toUriString();

    return uriComponents.toUriString();
}
}

```

[2. 페이지징]

```
<!-- public ArrayList<BaseBoardVO> listCriteria(BaseBoardVO baseBoardVO); -->
<select id="listCriteria" resultType="rK.smetsysesor.hye.VO.BaseBoardVO">
    SELECT IDX, TITLE, CONTENT, REGDATE
    FROM BASEBOARD
    ORDER BY IDX DESC
    LIMIT #{pageStart}, #{perPageNum}
</select>

@Override
// public ArrayList<BaseBoardVO> listCriteria(BaseBoardVO baseBoardVO);
public ArrayList<BaseBoardVO> listCriteria(PagingBase pagingBase) {
    return baseMapper.listCriteria(pagingBase);
}

// 글 목록 + 게시글 10개 처리
// public ArrayList<BaseBoardVO> listCriteria(BaseBoardVO baseBoardVO);
@RequestMapping(value="/listCriteria", method= RequestMethod.GET)
public String list(PagingBase pagingBase, Model model) {
    model.addAttribute("boardList", baseService.listCriteria(pagingBase));
    return "list";
}

<!-- public int countIdx(PagingBase pagingBase); -->
<select id="countIdx" resultType="int">
    SELECT COUNT(IDX) FROM BASEBOARD
</select>

@Override
// public int countBno(BaseBoardVO baseBoardVO);
public int countIdx(PagingBase pagingBase) {
    return baseMapper.countIdx(pagingBase);
}
```



```

<!-- public ArrayList<BaseBoardVO> listPage(int page); -->
<select id="listPage" resultType="rK.smetsysesor.hye.VO.BaseBoardVO">
    SELECT * FROM BASEBOARD
        ORDER BY IDX DESC
        LIMIT #{page}, 10
</select>

```

```

@Override
// public ArrayList<BaseBoardVO> listPage(int page);
public ArrayList<BaseBoardVO> listPage(int page) {
    return baseMapper.listPage(page);
}

```

// 글 목록 + 페이징 처리

```

// public String list(Model model) { ... } -- 주석처리 필요
// public ArrayList<BaseBoardVO> listPage(int page);
@RequestMapping(value="/", method=RequestMethod.GET)
public String listPaging(PagingBase pagingBase, Model model) {
    model.addAttribute("boardList", baseService.listCriteria(pagingBase));
    PagingCalc pagingCalc = new PagingCalc();
    pagingCalc.setPagingBase(pagingBase);

    int totalCount = baseService.countIdx(pagingBase);
    pagingCalc.setTotalCount(totalCount);

    model.addAttribute("pagingCalc", pagingCalc);
    return "list";
}
</mapper>

```