**DB Object 정의서**

**(Procedure, View, Function, Sequence, Trigger)**

1. Procedure

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| 프로시저명 | procAddStudent | 작성일 | 2022/05/20 |
| 기능 | 학생 추가 | 작성자 | 변창현 |
| DML | | | |
| CREATE OR REPLACE PROCEDURE procAddStudent(  pid tblmemberinfo.id%TYPE,  pname tblmemberinfo.name%TYPE,  pssn tblstudent.ssn%TYPE,  ptel tblstudent.tel%TYPE,  pregdate tblstudent.regdate%TYPE,  pemployment tblstudent.employment%TYPE,  pmemberinfoseq tblstudent.memberinfoseq%TYPE  )  IS  vstudentseq NUMBER;  BEGIN  INSERT INTO tblmemberinfo VALUES ((select max(tblmemberinfo.memberinfoseq) + 1 from tblmemberinfo), pname, pid);  INSERT INTO tblstudent VALUES ((select max(tblstudent.studentseq) + 1 from tblstudent), pssn, ptel, pregdate, pemployment, pmemberinfoseq);  SELECT max(MEMBERINFOSEQ) INTO vstudentseq FROM TBLMEMBERINFO WHERE memberinfoseq = vstudentseq;  dbms\_output.put\_line('------------------');  dbms\_output.put\_line('등록이 완료 되었습니다.');  dbms\_output.put\_line('------------------');  END procAddStudent;  BEGIN  PROCADDSTUDENT('이준니', 'dfjkaemsllld','990811-2212344', '010-8071-2384', '2022-05-09', 'N', 102);  END; | | | |

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| 프로시저명 | procDelStudent | 작성일 | 2022/05/20 |
| 기능 | 학생 삭제 | 작성자 | 변창현 |
| DML | | | |
| CREATE OR REPLACE PROCEDURE procDelStudent(  pid tblmemberinfo.id%TYPE,  pssn tblstudent.ssn%TYPE  )  IS  BEGIN  DELETE FROM tblmemberinfo WHERE id = pid;  DELETE FROM tblstudent WHERE ssn = pssn;  dbms\_output.put\_line('------------------');  dbms\_output.put\_line('삭제가 완료 되었습니다.');  dbms\_output.put\_line('------------------');  END;  BEGIN  PROCDELSTUDENT('dfjkaemsllld', '990811-2212344');  END; | | | |

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| 프로시저명 | procUpdateStudent | 작성일 | 2022/05/20 |
| 기능 | 학생 수정 | 작성자 | 변창현 |
| DML | | | |
| CREATE OR REPLACE PROCEDURE procUpdateStudent(  pid tblmemberinfo.id%TYPE,  pname tblmemberinfo.name%TYPE,  ptel tblstudent.tel%TYPE,  pssn tblstudent.ssn%TYPE,    pmemberinfoseq tblmemberinfo.memberinfoseq%TYPE,  pstudentseq tblstudent.studentseq%TYPE  )  IS  BEGIN  UPDATE tblmemberinfo m  SET m.id = pid  WHERE m.memberinfoseq = pmemberinfoseq;    UPDATE tblmemberinfo m  SET m.name = pname  WHERE m.memberinfoseq = pmemberinfoseq;    UPDATE tblstudent s  SET s.tel = ptel  WHERE s.studentseq = pstudentseq;    UPDATE tblstudent s  SET s.ssn = pssn  WHERE s.studentseq = pstudentseq;    dbms\_output.put\_line('------------------');  dbms\_output.put\_line('수정이 완료 되었습니다.');  dbms\_output.put\_line('------------------');  END;  BEGIN  PROCUPDATESTUDENT('xklhqjwzv', '장창호', '010-8839-1724', '990104-1010209', 31, 21);  END; | | | |

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| 프로시저명 | procTecomm | 작성일 | 2022/05/22 |
| 기능 | 커뮤니티질문에 대한 답변등록 | 작성자 | 이지영 |
| DML | | | |
| create or replace procedure procTecomm(  pid in varchar2,  pseq in number,  pcontents in varchar2  )  is  vseq number;  begin  insert into tblcomment (commentseq, memberseq, comunityseq, commentcontents)  values ((select max(commentseq) + 1 from tblcomment),  ( select  m.memberseq  from tblmember m  inner join tblmemberinfo mi  on m.memberinfoseq = mi.memberinfoseq  inner join tblteacher t  on t.memberinfoseq = mi.memberinfoseq  where mi.id = pid and rownum = 1),  pseq, pcontents);      if  vseq = 2 then  update tblcomunity set answer = 'Y' where comunityseq = pseq;  dbms\_output.put\_line('질문에 대한 답변을 하였습니다.');  else  null;  end if;    end;  --실행  begin  procTecomm('eufhfjsjwjl',1, '강의와 관련된책 읽으면 도움됩니다');  end; | | | |

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| 프로시저명 | procAdminComuAdd | 작성일 | 2022-05-21 |
| 기능 | 관리자권한 커뮤니티 글 작성 | 작성자 | 정병직 |
| DML | | | |
| create or replace procedure procAdminComuAdd(  pid in varchar2,  ppw in varchar2,  pcatename in varchar2,  pcontents in varchar2,  psubjecseq in number  )  is  vseq number;  vlogin number;  vsubjectcount number;  begin  select count(\*) into vlogin from tblmember m inner join tblmemberinfo mi on m.memberinfoseq = mi.memberinfoseq inner join tblAdmin a on a.memberinfoseq = mi.memberinfoseq where mi.id = pid and a.pw = ppw;  select count(\*) into vsubjectcount from tblsubjectschedule where subjectScheduleSeq = psubjecseq;    insert into tblcomunity  values ((select max(comunityseq) + 1 from tblcomunity),  (select m.memberseq  from tblmember m  inner join tblmemberinfo mi  on m.memberinfoseq = mi.memberinfoseq  inner join tblAdmin a  on a.memberinfoseq = mi.memberinfoseq  where mi.id = pid and a.pw = ppw),  (select categoryseq from tblcommucategory where categoryname = pcatename),  sysdate,  pcontents, null, 0, psubjecseq);    select categoryseq into vseq from tblcommucategory where categoryname = pcatename;    if vseq = 2 then  update tblcomunity set answer = 'N' where comunityseq = (select max(comunityseq) from tblcomunity);  end if;  exception  when others then  if  pcatename not in ('공지사항', '질문', '잡담') then  dbms\_output.put\_line('---------------------------------------------------');  dbms\_output.put\_line('카테고리 입력이 잘못되었습니다.');  dbms\_output.put\_line('---------------------------------------------------');  elsif  length(pcontents) > 100 then  dbms\_output.put\_line('---------------------------------------------------');  dbms\_output.put\_line('내용이 100자를 초과하였습니다.');  dbms\_output.put\_line('---------------------------------------------------');  elsif  vlogin = 0 then  dbms\_output.put\_line('---------------------------------------------------');  dbms\_output.put\_line('잘못 로그인하였습니다.');  dbms\_output.put\_line('---------------------------------------------------');  elsif  vsubjectcount = 0 then  dbms\_output.put\_line('---------------------------------------------------');  dbms\_output.put\_line('존재하지 않는 과목 스케줄 번호입니다.');  dbms\_output.put\_line('---------------------------------------------------');  end if;  end;  / | | | |

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| 프로시저명 | procAdminCommentAdd | 작성일 | 2022-05-21 |
| 기능 | 관리자권한 커뮤니티 댓글 작성 | 작성자 | 정병직 |
| DML | | | |
| create or replace procedure procAdminCommentAdd(  pid in varchar2,  ppw in varchar2,  pseq in number,  pcontents in varchar2  )  is  vseq number;  vlogin number;  begin  select count(\*) into vlogin from tblmember m inner join tblmemberinfo mi on m.memberinfoseq = mi.memberinfoseq inner join tblAdmin a on a.memberinfoseq = mi.memberinfoseq where mi.id = pid and a.pw = ppw;  select categoryseq into vseq from tblcomunity where comunityseq = pseq;  insert into tblcomment (commentseq, memberseq, comunityseq, commentcontents)  values ((select max(commentseq) + 1 from tblcomment),  (select m.memberseq  from tblmember m  inner join tblmemberinfo mi  on m.memberinfoseq = mi.memberinfoseq  inner join tblAdmin a  on a.memberinfoseq = mi.memberinfoseq  where mi.id = pid and a.pw = ppw),  pseq, pcontents);  if  vseq = 2 then  update tblcomunity set answer = 'Y' where comunityseq = pseq;  dbms\_output.put\_line('질문에 대한 답변을 하였습니다.');  else  null;  end if;    exception  when others then  if  vlogin = 0 then  dbms\_output.put\_line('---------------------------------------------------');  dbms\_output.put\_line('잘못 로그인하였습니다.');  dbms\_output.put\_line('---------------------------------------------------');  elsif  length(pcontents) > 100 then  dbms\_output.put\_line('---------------------------------------------------');  dbms\_output.put\_line('내용이 100자를 초과하였습니다.');  dbms\_output.put\_line('---------------------------------------------------');  else  dbms\_output.put\_line('---------------------------------------------------');  dbms\_output.put\_line('존재하지 않는 커뮤니티 번호입니다.');  dbms\_output.put\_line('---------------------------------------------------');  end if;  end;  / | | | |

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| 프로시저명 | procAdminComuChange | 작성일 | 2022-05-17 |
| 기능 | 커뮤니티 글 수정 | 작성자 | 정병직 |
| DML | | | |
| create or replace procedure procAdminComuChange(  pcatename varchar2,  pcontents varchar2,  pcomuseq number  )  is  vseq number;  vcseq number;  begin  select categoryseq into vseq from tblcomunity where comunityseq = pcomuseq;  select categoryseq into vcseq from tblcommucategory where categoryname = pcatename;    update tblcomunity a set  a.writedate = sysdate,  a.categoryseq = (select categoryseq from tblcommucategory where categoryname = pcatename),  a.contents = pcontents  where a.comunityseq = pcomuseq;    if vseq = 2 then  update tblcomunity set answer = 'N' where comunityseq = pcomuseq;  else  update tblcomunity set answer = NULL where comunityseq = pcomuseq;  end if;    exception  when others then  if  pcatename not in ('공지사항', '질문', '잡담') then  dbms\_output.put\_line('---------------------------------------------------');  dbms\_output.put\_line('카테고리 입력이 잘못되었습니다.');  dbms\_output.put\_line('---------------------------------------------------');  elsif  length(pcontents) > 100 then  dbms\_output.put\_line('---------------------------------------------------');  dbms\_output.put\_line('내용이 100자를 초과하였습니다.');  dbms\_output.put\_line('---------------------------------------------------');  else  dbms\_output.put\_line('---------------------------------------------------');  dbms\_output.put\_line('존재하지 않는 커뮤니티 번호입니다.');  dbms\_output.put\_line('---------------------------------------------------');  end if;  end;  / | | | |

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| 프로시저명 | procAdminCommentChange | 작성일 | 2022-05-17 |
| 기능 | 커뮤니티 댓글 수정 | 작성자 | 정병직 |
| DML | | | |
| create or replace procedure procAdminCommentChange(  pseq number,  pcomment varchar2  )  is  begin  update tblcomment set commentcontents = pcomment where commentseq = pseq;  exception  when others then  if  length(pcomment) > 100 then  dbms\_output.put\_line('---------------------------------------------------');  dbms\_output.put\_line('내용이 100자를 초과하였습니다.');  dbms\_output.put\_line('---------------------------------------------------');  else  dbms\_output.put\_line('---------------------------------------------------');  dbms\_output.put\_line('존재하지 않는 댓글 번호입니다.');  dbms\_output.put\_line('---------------------------------------------------');  end if;  end;  / | | | |

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| 프로시저명 | procAdminComuDel | 작성일 | 2022-05-17 |
| 기능 | 커뮤니티 글 삭제 | 작성자 | 정병직 |
| DML | | | |
| create or replace procedure procAdminComuDel(  pseq in number  )  is  begin    delete from tblcomment where comunityseq = pseq;  delete from tblcomunity where comunityseq = pseq;  dbms\_output.put\_line('---------------------------------------------------');  dbms\_output.put\_line('삭제 완료');  dbms\_output.put\_line('---------------------------------------------------');  exception  when others then  dbms\_output.put\_line('---------------------------------------------------');  dbms\_output.put\_line('존재하지 않는 커뮤니티 번호입니다.');  dbms\_output.put\_line('---------------------------------------------------');  end;  / | | | |

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| 프로시저명 | procAdminCommentDel | 작성일 | 2022-05-17 |
| 기능 | 커뮤니티 댓글 삭제 | 작성자 | 정병직 |
| DML | | | |
| create or replace procedure procAdminCommentDel(  pseq number  )  is  begin  delete from tblcomment where commentseq = pseq;  exception  when others then  dbms\_output.put\_line('---------------------------------------------------');  dbms\_output.put\_line('존재하지 않는 댓글 번호입니다.');  dbms\_output.put\_line('---------------------------------------------------');  end;  / | | | |

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| 프로시저명 | procequipmentstate | 작성일 | 2022-05-20 |
| 기능 | 기자재 사용여부 수정 | 작성자 | 서주예 |
| DML | | | |
| create or replace procedure procequipmentstate(  pequipseq in number,  pstate in varchar2  )  is  begin  update tblequipment set equipmentstateseq = fnequipmentstate(pstate) where equipmentseq =pequipseq ;  end procequipmentstate; | | | |

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| 프로시저명 | procScore | 작성일 | 2022-05-20 |
| 기능 | 성적 입력 | 작성자 | 서주예 |
| DML | | | |
| create or replace procedure procScore(  ptestseq in number,  penrolmentseq in number,  pwrittenscore in number,  ppracticalscore in number,  pattendancescore in number  )  is  begin  insert into tblwrittenscore values (seqWritten.nextVal, ptestseq, penrolmentseq, pwrittenscore);  insert into tblpracticalscore values ((select max(practicalscoreseq)+1 from tblpracticalscore), ptestseq, penrolmentseq, ppracticalscore);  insert into tblattendancescore values ((select max(attendancescoreseq)+1 from tblattendancescore), penrolmentseq, pattendancescore);  end procScore; | | | |

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| 프로시저명 | procPoint | 작성일 | 2022-05-20 |
| 기능 | 배점 입력 | 작성자 | 서주예 |
| DML | | | |
| create or replace procedure procPoint(  writtenpoint in number,  practicalpoint in number,  attendancepoint in number  )  is  ROW\_SCORE EXCEPTION;  begin  insert into tblPoint values (seqPoint2.nextVal, writtenpoint, practicalpoint, attendancepoint, fnGetsubjectseq(3, 'Spring', 15));  if attendancepoint < 20 then  raise ROW\_SCORE;  end if;  exception  when ROW\_SCORE then dbms\_output.put\_line('조건이 맞지않습니다.');  end procPoint; | | | |

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| 프로시저명 | procTestDate | 작성일 | 2022-05-20 |
| 기능 | 시험입력 | 작성자 | 서주예 |
| DML | | | |
| create or replace procedure procTestDate(  psbschseq in number,  pdate in date,  ptype in varchar2  )  is  begin  insert into tblTest values ((select max(testseq) + 1 from tblTest), psbschseq, pdate, fntesttype(ptype));  end procTestDate;  -- 시험등록  begin  procTestDate(23, '2022-05-19', '실기');  end; | | | |

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| 프로시저명 | A.01 procAddBaseInfo | 작성일 | 2022-05-20 |
| 기능 | 기초 정보 입력 프로시저 | 작성자 | 염규준 |
| DML | | | |
| CREATE OR REPLACE PROCEDURE procAddBaseInfo(  pprocedureName tblprocedurelist.PROCEDURENAME%TYPE,  psubjectName tblsubject.SUBJECTNAME%TYPE,  proomname tblroom.ROOMNAME%TYPE,  proomsum tblroom.ROOMSUM%TYPE,  pbookname tblbook.BOOKNAME%TYPE,  ppublishername tblpublisher.PUBLISHERNAME%TYPE  )  IS  vpublisherseq NUMBER;  BEGIN  INSERT INTO TBLPROCEDURELIST VALUES ((SELECT max(PROCEDURELISTSEQ)+1 FROM TBLPROCEDURELIST), pprocedureName);  INSERT INTO TBLSUBJECT VALUES (seqSubject.nextVal, psubjectName);  INSERT INTO TBLROOM VALUES ((SELECT max(ROOMSEQ)+1 FROM TBLROOM), proomname, proomsum);  INSERT INTO TBLPUBLISHER VALUES ((SELECT max(PUBLISHERSEQ)+1 FROM TBLPUBLISHER), ppublishername);  SELECT PUBLISHERSEQ INTO vpublisherseq FROM TBLPUBLISHER WHERE PUBLISHERNAME = ppublishername;  INSERT INTO TBLBOOK VALUES ((SELECT max(BOOKSEQ)+1 FROM TBLBOOK), pbookname, vpublisherseq);  dbms\_output.put\_line('------------------');  dbms\_output.put\_line('등록이 완료 되었습니다.');  dbms\_output.put\_line('------------------');  END procAddBaseInfo;  BEGIN  PROCADDBASEINFO('테스트과정', '테스트과목', '9강의실', 25, '테스트교재', '테스트출판사');  END; | | | |

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| 프로시저명 | A.01 procDelBaseInfo | 작성일 | 2022-05-20 |
| 기능 | 기초 정보 삭제 프로시저 | 작성자 | 염규준 |
| DML | | | |
| CREATE OR REPLACE PROCEDURE procDelBaseInfo(  pprocedureName tblprocedurelist.PROCEDURENAME%TYPE,  psubjectName tblsubject.SUBJECTNAME%TYPE,  proomname tblroom.ROOMNAME%TYPE,  proomsum tblroom.ROOMSUM%TYPE,  pbookname tblbook.BOOKNAME%TYPE,  ppublishername tblpublisher.PUBLISHERNAME%TYPE  )  IS  BEGIN  DELETE FROM TBLBOOK WHERE BOOKNAME = pbookname;  DELETE FROM TBLPUBLISHER WHERE PUBLISHERNAME = ppublishername;  DELETE FROM TBLROOM WHERE ROOMNAME = proomname;  DELETE FROM TBLSUBJECT WHERE SUBJECTNAME = psubjectName;  DELETE FROM TBLPROCEDURELIST WHERE PROCEDURENAME = pprocedureName;  dbms\_output.put\_line('------------------');  dbms\_output.put\_line('삭제가 완료 되었습니다.');  dbms\_output.put\_line('------------------');  END;  BEGIN  PROCDELBASEINFO('테스트과정', '테스트과목', '9강의실', 25, '테스트교재', '테스트출판사');  END; | | | |

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| 프로시저명 | A.01 procUpdateBaseInfo | 작성일 | 2022-05-20 |
| 기능 | 기초 정보 수정 프로시저 | 작성자 | 염규준 |
| DML | | | |
| CREATE OR REPLACE PROCEDURE procUpdateBaseInfo(  -- 입력값  pprocedureName tblprocedurelist.PROCEDURENAME%TYPE,  psubjectName tblsubject.SUBJECTNAME%TYPE,  proomname tblroom.ROOMNAME%TYPE,  proomsum tblroom.ROOMSUM%TYPE,  pbookname tblbook.BOOKNAME%TYPE,  ppublishername tblpublisher.PUBLISHERNAME%TYPE,    -- 시퀀스  pprocedureSeq tblprocedurelist.PROCEDURELISTSEQ%TYPE,  psubjectSeq tblsubject.SUBJECTSEQ%TYPE,  proomSeq tblroom.ROOMSEQ%TYPE,  pbookSeq tblbook.BOOKSEQ%TYPE,  ppublisherSeq tblpublisher.PUBLISHERSEQ%TYPE  )  IS  BEGIN  UPDATE TBLPUBLISHER p  SET p.PUBLISHERNAME = ppublishername  WHERE p.PUBLISHERSEQ = ppublisherSeq;    UPDATE TBLBOOK b  SET b.BOOKNAME = pbookname  WHERE b.BOOKSEQ = pbookSeq;  UPDATE TBLROOM r  SET r.ROOMNAME = proomname,  r.ROOMSUM = proomsum  WHERE r.ROOMSEQ = proomSeq;  UPDATE TBLSUBJECT s  SET s.SUBJECTNAME = psubjectName  WHERE s.SUBJECTSEQ = psubjectSeq;  UPDATE TBLPROCEDURELIST pl  SET pl.PROCEDURENAME = pprocedureName  WHERE pl.PROCEDURELISTSEQ = pprocedureSeq;  dbms\_output.put\_line('------------------');  dbms\_output.put\_line('수정이 완료 되었습니다.');  dbms\_output.put\_line('------------------');  END;  BEGIN  procUpdateBaseInfo('테1스트과정', '테1스트과목', '91강의실', 27, '테1스트교재', '테1스트출판사',11,34,7,31,19);  END; | | | |

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| 프로시저명 | A.02 procAddTeacher | 작성일 | 2022-05-20 |
| 기능 | 교사 정보 입력 프로시저 | 작성자 | 염규준 |
| DML | | | |
| CREATE OR REPLACE PROCEDURE procAddTeacher(  pname tblmemberinfo.NAME%TYPE,  pid tblmemberinfo.ID%TYPE,  pssn tblteacher.SSN%TYPE,  ptel tblteacher.TEL%TYPE,  psubnum tblsubject.SUBJECTSEQ%TYPE  )  IS  vmembernum NUMBER;  BEGIN  INSERT INTO TBLMEMBERINFO VALUES ((SELECT max(MEMBERINFOSEQ)+1 FROM TBLMEMBERINFO), pname, pid);  SELECT MEMBERINFOSEQ into vmembernum FROM tblmemberinfo WHERE ID = pid;  INSERT INTO TBLTEACHER VALUES (seqTeacher.nextVal, pssn, ptel, vmembernum);  INSERT INTO TBLPOSSIBLESUBJECT VALUES ((SELECT max(POSSIBLESUBJECTSEQ)+1 FROM TBLPOSSIBLESUBJECT), FNTEACHERSEQ(pid) , psubnum);    dbms\_output.put\_line('------------------');  dbms\_output.put\_line('등록이 완료 되었습니다.');  dbms\_output.put\_line('------------------');  END;  BEGIN  PROCADDTEACHER('테스트','testid','901212-1012345','010-1234-1234',34);  END; | | | |

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| 프로시저명 | A.02 procDelTeacher | 작성일 | 2022-05-20 |
| 기능 | 교사 정보 삭제 프로시저 | 작성자 | 염규준 |
| DML | | | |
| CREATE OR REPLACE PROCEDURE procDelTeacher(  pid tblmemberinfo.ID%TYPE  )  IS  vseq NUMBER;  BEGIN  vseq := fnteacherSeq(pid);  DELETE FROM TBLPOSSIBLESUBJECT WHERE TEACHERSEQ = vseq;  DELETE FROM TBLTEACHER WHERE TEACHERSEQ = vseq;  DELETE FROM TBLMEMBERINFO WHERE ID = pid;  dbms\_output.put\_line('------------------');  dbms\_output.put\_line('삭제가 완료 되었습니다.');  dbms\_output.put\_line('------------------');  END;  BEGIN  procDelTeacher('testid');  END; | | | |

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| 프로시저명 | A.02 procUpdateTeacher | 작성일 | 2022-05-20 |
| 기능 | 교사 정보 수정 프로시저 | 작성자 | 염규준 |
| DML | | | |
| CREATE OR REPLACE PROCEDURE procUpdateTeacher(  -- 입력  pname tblmemberinfo.NAME%TYPE,  pid tblmemberinfo.ID%TYPE,  pssn tblteacher.SSN%TYPE,  ptel tblteacher.TEL%TYPE,  psubnum tblsubject.SUBJECTSEQ%TYPE,  -- 시퀀스  pmemberinfoSeq tblmemberinfo.MEMBERINFOSEQ%TYPE,  pteacherSeq tblteacher.TEACHERSEQ %TYPE  --psubjectSeq tblsubject.SUBJECTSEQ%TYPE  )  IS  BEGIN  UPDATE TBLMEMBERINFO mi  SET mi.NAME = pname,  mi.ID = pid  WHERE mi.MEMBERINFOSEQ = pmemberinfoSeq;  UPDATE TBLTEACHER t  SET t.SSN = pssn,  t.TEL = ptel  WHERE t.TEACHERSEQ = pteacherSeq;  UPDATE TBLPOSSIBLESUBJECT pss  SET pss.SUBJECTSEQ = psubnum  WHERE pss.TEACHERSEQ = pteacherSeq;  dbms\_output.put\_line('------------------');  dbms\_output.put\_line('수정이 완료 되었습니다.');  dbms\_output.put\_line('------------------');  END; | | | |

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| 프로시저명 | A.03 procAddOpenProcManage | 작성일 | 2022-05-20 |
| 기능 | 과정 정보 입력 프로시저 | 작성자 | 염규준 |
| DML | | | |
| CREATE OR REPLACE PROCEDURE procAddOpenProcManage(  pprocseq tblopeningprocedure.PROCEDURELIST%TYPE,  pstartdate varchar2,  penddate varchar2,  proom tblopeningprocedure.ROOMSEQ%TYPE,  pstudentsum tblopeningprocedure.STUDENTSUM%TYPE  )  IS  BEGIN  INSERT INTO tblopeningprocedure  VALUES (SEQOPENINGPROCEDURE.nextVal, proom, to\_date(pstartdate,'YYYY-MM-DD'), to\_date(penddate,'YYYY-MM-DD'), pstudentsum, pprocseq);  dbms\_output.put\_line('------------------');  dbms\_output.put\_line('등록이 완료 되었습니다.');  dbms\_output.put\_line('------------------');  END;  BEGIN  procAddOpenProcManage(10,'2022-05-20','2022-06-20',7,25);  END; | | | |

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| 프로시저명 | A.03 procDelOpenProcManage | 작성일 | 2022-05-20 |
| 기능 | 과정 정보 삭제 프로시저 | 작성자 | 염규준 |
| DML | | | |
| CREATE OR REPLACE PROCEDURE procDelOpenProcManage(  pseq tblopeningprocedure.OPENINGPROCEDURESEQ%TYPE  )  IS  BEGIN  DELETE FROM TBLOPENINGPROCEDURE WHERE OPENINGPROCEDURESEQ = pseq;    dbms\_output.put\_line('------------------');  dbms\_output.put\_line('삭제가 완료 되었습니다.');  dbms\_output.put\_line('------------------');  END;  BEGIN  procDelOpenProcManage(21);  END; | | | |

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| 프로시저명 | A.03 procUpdateProcManage | 작성일 | 2022-05-20 |
| 기능 | 과정 정보 수정 프로시저 | 작성자 | 염규준 |
| DML | | | |
| CREATE OR REPLACE PROCEDURE procUpdateProcManage(  pprocseq tblopeningprocedure.PROCEDURELIST%TYPE,  pstartdate varchar2,  penddate varchar2,  proom tblopeningprocedure.ROOMSEQ%TYPE,  pstudentsum tblopeningprocedure.STUDENTSUM%TYPE,  pseq tblopeningprocedure.OPENINGPROCEDURESEQ%TYPE  )  IS  BEGIN  UPDATE TBLOPENINGPROCEDURE  SET ROOMSEQ = proom,  PROCEDURESTART = to\_Date(pstartdate,'YYYY-MM-DD'),  PROCEDUREEND = to\_Date(penddate,'YYYY-MM-DD'),  STUDENTSUM = pstudentsum,  PROCEDURELIST = pprocseq  WHERE OPENINGPROCEDURESEQ = pseq;  dbms\_output.put\_line('------------------');  dbms\_output.put\_line('수정이 완료 되었습니다.');  dbms\_output.put\_line('------------------');  END;  BEGIN  procUpdateProcManage(9,'2022-05-21','2022-06-21',6,26,21);  END; | | | |

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| 프로시저명 | A.04 procAddOpenSubj | 작성일 | 2022-05-20 |
| 기능 | 과목 정보 입력 프로시저 | 작성자 | 염규준 |
| DML | | | |
| CREATE OR REPLACE PROCEDURE procAddOpenSubj(  popenproc tblopeningprocedure.OPENINGPROCEDURESEQ%TYPE,  psubjectstart varchar2,  psubjectend varchar2,  psubject tblpossiblesubject.SUBJECTSEQ%TYPE,  pteacher tblpossiblesubject.TEACHERSEQ%TYPE  )  IS  vpossisubjseq NUMBER;  BEGIN  INSERT INTO TBLPOSSIBLESUBJECT VALUES(TBLPOSSIBLESUBJECTSEQ.nextVal, pteacher, psubject);  SELECT max(POSSIBLESUBJECTSEQ)into vpossisubjseq FROM TBLPOSSIBLESUBJECT;  INSERT INTO TBLSUBJECTSCHEDULE VALUES(SEQSUBSCHEDULE.nextVal, to\_Date(psubjectstart,'YYYY-MM-DD'), to\_Date(psubjectend,'YYYY-MM-DD'), popenproc , vpossisubjseq);  dbms\_output.put\_line('------------------');  dbms\_output.put\_line('등록이 완료 되었습니다.');  dbms\_output.put\_line('------------------');  END;  BEGIN  procAddOpenSubj(21,'2022-05-20','2022-06-20',34,22);  END; | | | |

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| 프로시저명 | A.04 procDelOpenSubj | 작성일 | 2022-05-20 |
| 기능 | 과목 정보 삭제 프로시저 | 작성자 | 염규준 |
| DML | | | |
| CREATE OR REPLACE PROCEDURE procDelOpenSubj(  psubjsch tblsubjectschedule.SUBJECTSCHEDULESEQ%TYPE  )  IS  vpossseq NUMBER;  BEGIN  SELECT POSSIBLESUBJECTSEQ INTO vpossseq FROM TBLSUBJECTSCHEDULE WHERE SUBJECTSCHEDULESEQ = psubjsch;  DELETE FROM TBLSUBJECTSCHEDULE WHERE SUBJECTSCHEDULESEQ = psubjsch;  DELETE FROM TBLPOSSIBLESUBJECT WHERE POSSIBLESUBJECTSEQ = vpossseq;  dbms\_output.put\_line('------------------');  dbms\_output.put\_line('삭제가 완료 되었습니다.');  dbms\_output.put\_line('------------------');  END;  BEGIN  procDelOpenSubj(64);  END; | | | |

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| 프로시저명 | A.04 procUpdateOpenSubj | 작성일 | 2022-05-20 |
| 기능 | 과목 정보 수정 프로시저 | 작성자 | 염규준 |
| DML | | | |
| CREATE OR REPLACE PROCEDURE procUpdateOpenSubj(  psubjschseq tblsubjectschedule.SUBJECTSCHEDULESEQ%TYPE,  psubjectstart varchar2,  psubjectend varchar2,  popenproc tblsubjectschedule.OPENINGPROCEDURESEQ%TYPE,  pposssubject tblsubjectschedule.POSSIBLESUBJECTSEQ%TYPE,  pteacher tblpossiblesubject.TEACHERSEQ%TYPE,  psubject tblpossiblesubject.SUBJECTSEQ%TYPE,  ppossseq tblpossiblesubject.POSSIBLESUBJECTSEQ%TYPE  )  IS  BEGIN  UPDATE TBLSUBJECTSCHEDULE  SET SUBJECTSTART = to\_date(psubjectstart,'YYYY-MM-DD'),  SUBJECTEND = to\_date(psubjectend,'YYYY-MM-DD'),  OPENINGPROCEDURESEQ = popenproc,  POSSIBLESUBJECTSEQ = pposssubject  WHERE SUBJECTSCHEDULESEQ = psubjschseq;  UPDATE TBLPOSSIBLESUBJECT  SET TEACHERSEQ = pteacher,  SUBJECTSEQ = pposssubject  WHERE POSSIBLESUBJECTSEQ = ppossseq;  dbms\_output.put\_line('------------------');  dbms\_output.put\_line('수정이 완료 되었습니다.');  dbms\_output.put\_line('------------------');  END;  BEGIN  procUpdateOpenSubj(64,'2022-05-21','2022-06-21',16,11,5,26,65);  END; | | | |

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| 프로시저명 | C.02 procAttendance | 작성일 | 2022/05/20 |
| 기능 | 교육생 출결정보 기록하는 프로시저입니다. | 작성자 | 정혜인 |
| DML | | | |
| create or replace procedure procAttendance(  pid varchar2,  pintime varchar2,  pouttime varchar2  )  is  begin  if to\_char(sysdate, 'd') not in ('1','7') then --주말 아닌 날짜 일 때  if to\_date(pintime,'hh24:mi') > to\_date('09:10','hh24:mi') then --출근시각이 9:10보다 후일 때  if  to\_date(pouttime,'hh24:mi') < to\_date('17:40','hh24:mi') then --출근시각이 9:10보다 후이고 퇴근이 17:40앞일 때 지각조퇴  dbms\_output.put\_line('지각조퇴');  insert into tblAttendance values (SEQATTENDANCE10.nextval, fngetenrol('dkdghvrhd'), pintime, pouttime,3, sysdate);  else  dbms\_output.put\_line('지각');  insert into tblAttendance values (SEQATTENDANCE10.nextval, fngetenrol('dkdghvrhd'), pintime, pouttime,2, sysdate); --지각  end if;  elsif to\_date(pintime,'hh24:mi') < to\_date('09:10','hh24:mi') then --출근시각이 9:10보다 앞일 때  if to\_date(pouttime,'hh24:mi') < to\_date('17:40','hh24:mi') then ---출근시각이 9:10보다 앞이고 퇴근시각이 17:40 앞일 때 조퇴  dbms\_output.put\_line('조퇴');  insert into tblAttendance values (SEQATTENDANCE10.nextval, fngetenrol('dkdghvrhd'), pintime, pouttime ,3, sysdate);  else  dbms\_output.put\_line('정상');  insert into tblAttendance values (SEQATTENDANCE10.nextval, fngetenrol('dkdghvrhd'), pintime, pouttime,1, sysdate); --정상  end if;  end if;  else  dbms\_output.put\_line('주말에는 출결 불가합니다.');  end if;  end;  --실행  begin  procattendance('dkdghvrhd','09:15','17:50');  end; | | | |

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| 프로시저명 | C.02 procAttendanceElse | 작성일 | 2022/05/20 |
| 기능 | 교육생 근태상황 외출,병가,기타일때 사용하는 프로시저입니다. | 작성자 | 정혜인 |
| DML | | | |
| --출결입력 (외출,병가,기타)  create or replace procedure procattendancelse(  pid varchar2,  pintime varchar2,  pouttime varchar2,  pstate number  )  is  begin  if to\_char(sysdate, 'd') not in ('1','7') then  if pstate in(4,5,6) then  insert into tblAttendance values (SEQATTENDANCE10.nextval, fngetenrol('dkdghvrhd'), pintime, pouttime,pstate, sysdate);  else  dbms\_output.put\_line('출결상태번호를 ( 4.외출 5.병가 6.기타) 중에서 입력해주세요.');  end if;  else  dbms\_output.put\_line('주말에는 출결 불가합니다.');  end if;  end;  –실행  begin  procattendancelse('dkdghvrhd','09:00','14:50',6);  end; | | | |

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| 프로시저명 | C.03 procWriteComuSt | 작성일 | 2022/05/20 |
| 기능 | 교육생이 커뮤니티에 글을 작성하는 프로시저입니다. | 작성자 | 정혜인 |
| DML | | | |
| create or replace procedure procWriteComuSt(  pid varchar2,  pcategory number,  pcontents varchar2  )  is  vmemberseq number;  vsheduleseq number;  begin  select subjectscheduleseq,memberseq into vsheduleseq,vmemberseq from tblmember where memberinfoseq  = (select memberinfoseq from tblmemberinfo where id = 'dkdghvrhd');  if pcategory in (2,3) then  insert into tblcomunity values (seqcomu.nextval, vmemberseq, pcategory ,sysdate, pcontents ,null,0,vsheduleseq);  else  dbms\_output.put\_line('카테고리 번호를 올바르게 입력하세요.(2.질문, 3.잡담)');  end if;  end;  --실행  begin  procwritecomuSt('dkdghvrhd',2,'안녕하세요');  end; | | | |

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| 프로시저명 | C. 03 procdelComu | 작성일 | 2022/05/20 |
| 기능 | 교육생이 자신이 커뮤니티에 쓴 글을 삭제하는 프로시저 | 작성자 | 정혜인 |
| DML | | | |
| create or replace procedure procdelComu(  pid varchar2,  pcomuseq number  )  is  begin  delete from tblcomunity where memberseq =  (select memberseq from tblmember where memberinfoseq  = (select memberinfoseq from tblmemberinfo where id = pid)) and comunityseq = pcomuseq ;  delete from tblcomment where comunityseq = pcomuseq;  end;  begin  procdelcomu('dkdghvrhd' , 21);  end; | | | |

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| 프로시저명 | C.03 procAddCommentSt | 작성일 | 2022/05/20 |
| 기능 | 교육생이 커뮤니티글에 댓글을 작성하는 프로시저 | 작성자 | 정혜인 |
| DML | | | |
| --댓글작성  create or replace procedure procAddCommentSt(  pid varchar2,  pcomuseq number,  pcomment varchar2  )is  cursor vcursor  is select "글번호" from vwcomunity where "과정과목번호" = (select subjectscheduleseq from tblmember where memberinfoseq  = (select memberinfoseq from tblmemberinfo where id = pid));  vmemberseq number;  vcomuseq number;  vcount number := 0;  begin  select memberseq into vmemberseq from tblmember where memberinfoseq  = (select memberinfoseq from tblmemberinfo where id = pid);  open vcursor;  loop  fetch vcursor into vcomuseq;  if vcomuseq = pcomuseq then  insert into tblcomment values (seqcomment.nextval, pcomuseq, vmemberseq, pcomment);  vcount := vcount + 1;  end if;  exit when vcursor%notfound;  end loop;  close vcursor;  if vcount <> 1 then  dbms\_output.put\_line('글 번호를 올바르게 입력하세요.');  end if;  end;  --실행  begin  procaddcommentst ('dkdghvrhd',11,'감사합니다.');  end; | | | |

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| 프로시저명 | C.04 procRate | 작성일 | 2022/05/20 |
| 기능 | 교육생이 과정평가 작성하는 프로시저 | 작성자 | 정혜인 |
| DML | | | |
| create or replace procedure procRate(  pratenum number,  pcontent varchar2,  pid varchar2  )  is  vopeningseq number;  venddate date;  venrol number;  vcount number ;  begin  select openingprocedureseq  into vopeningseq  from tblenrolment where enrolmentseq = fngetenrol(pid);  select procedureend into venddate  from tblopeningprocedure  where openingprocedureseq = (select openingprocedureseq  from tblenrolment where enrolmentseq =fngetenrol(pid) and tblenrolment.enrolmentstateseq = 1);  select count(\*) into vcount from tblprocedureRate where enrolmentseq = fngetenrol(pid);  if vcount = 0 then  if to\_char(venddate) < to\_char(sysdate) then  insert into tblprocedurerate values (seqRate.nextVal, sysdate, pratenum, pcontent, fngetenrol(pid), vopeningseq );  else  dbms\_output.put\_line('수강중인 과정이 아직 수료 전입니다.');  end if;  else  dbms\_output.put\_line('과정평가 내역이 이미 존재합니다.');  end if;  end;  --실행  --평점,내용,아이디  begin  procrate(5, '좋아요', 'xklhqjwzvv');  end; | | | |

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| 프로시저명 | C.05 procAddstudyst | 작성일 | 2022/05/20 |
| 기능 | 교육생이 자신이 보충학습 대상인지 확인하는 프로시저 | 작성자 | 정혜인 |
| DML | | | |
| create or replace procedure procAddstudyst(  pid varchar2  )  is  vresult number;  vname varchar2(30);  begin  select count(\*) into vresult from vwaddstudyst where "학생번호" = fnstudentseq(pid) ;  select "학생명"into vname from vwaddstudyst where "학생번호" = fnstudentseq(pid) ;  if vresult <> 0 then  dbms\_output.put\_line(vname || ' 님의 보충학습 내역이 있습니다.');  else  dbms\_output.put\_line(vname || '님의 보충학습 내역이 없습니다.');  end if;  end;  --실행  begin  procaddstudyst('dkdghvrhd');  end; | | | |

2. View

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| 뷰 명 | vwequipment | 작성일 | 2022-05-20 |
| 기능 | 기자재 정보가 출력되는 뷰 | 작성자 | 서주예 |
| DML | | | |
| create or replace view vwequipment  as  select  eqc.categoryname as "카테고리",  eq.equipmentname as "기자재",  eqs.statename as "사용가능여부",  r.roomname as "사용위치",  eq.importdate as "반입날짜"  from tblequipment eq  inner join tblRoom r  on r.roomseq = eq.roomseq  inner join tblequipmentcategory eqc  on eq.categoryseq = eqc.categoryseq  inner join tblequipmentstate eqs  on eqs.equipmentstateseq = eq.equipmentstateseq; | | | |

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| 뷰 명 | vwattendance | 작성일 | 2022-05-20 |
| 기능 | 출결이 출력되는 뷰 | 작성자 | 서주예 |
| DML | | | |
| create or replace view vwattendance  as  select  t.teacherseq as "교사 번호",  pl.procedurename as "과정명",  i.name as "학생명",  att.inTime as "출근시간",  att.outTime as "퇴근시간",  aas.attendancestatename as "근태사항",  att.attendancedate as "날짜"  from tblAttendance att  inner join tblEnrolment e  on e.enrolmentseq = att.enrolmentseq  inner join tblStudent st  on st.studentseq = e.studentseq  inner join tblopeningProcedure op  on op.openingprocedureseq = e.openingprocedureseq  inner join tblprocedureList pl  on pl.procedurelistseq = op.procedurelist  inner join tblsubjectschedule sh  on sh.openingprocedureseq = op.openingprocedureseq  inner join tblpossiblesubject ps  on ps.possiblesubjectseq = sh.possiblesubjectseq  inner join tblTeacher t  on t.teacherseq = ps.teacherseq  inner join tblmemberinfo i  on i.memberinfoseq = st.memberinfoseq  inner join tblattendancestate aas  on aas.attendancestateseq = att.attendancestateseq  order by "날짜"; | | | |

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| 뷰 명 | vwscoreinput | 작성일 | 2022-05-20 |
| 기능 | 과목에 대한 성적이 출력되는 뷰 | 작성자 | 서주예 |
| DML | | | |
| create or replace view vwscoreinput  as  select  distinct s.scoreseq,  t.teacherseq as "교사번호",  pl.procedurename as "과정명",  mi.name as "학생명" ,  sd.tel as "전화번호",  cs.completestate as "수료상태",  en.completedate as "수료 및 중도탈락 날짜",  sb.subjectname as "과목명",  ws.writtenscore as "필기점수",  ps.practicalscore as "실기점수",  ads.attendancescore as "출결점수"  from tblscore s  inner join tblwrittenscore ws  on s.writtenscoreseq = ws.writtenscoreseq  inner join tblpoint p  on s.pointseq = p.pointseq  inner join tblpracticalscore ps  on ps.practicalscoreseq = s.practicalscoreseq  inner join tblAttendanceScore ads  on s.attendancescoreseq = ads.attendancescoreseq  inner join tblenrolment en  on en.enrolmentseq = ads.enrolmentseq  inner join tblstudent sd  on sd.studentseq = en.studentseq  inner join tblmemberinfo mi  on mi.memberinfoseq = sd.memberinfoseq  inner join tblopeningprocedure op  on op.openingprocedureseq = en.openingprocedureseq  inner join tblroom r  on r.roomseq = op.roomseq  inner join tblProcedureList pl  on pl.procedurelistseq = op.procedurelist  inner join tblProcedureSubject psj  on psj.procedurelistseq = pl.procedurelistseq  inner join tblsubjectschedule sch  on sch.subjectscheduleseq = p.subjectscheduleseq  inner join tblpossiblesubject ps  on ps.possiblesubjectseq = sch.possiblesubjectseq  inner join tblsubject sb  on sb.subjectseq = ps.subjectseq  inner join tblteacher t  on ps.teacherseq = t.teacherseq  left outer join tblbooklist bl  on bl.subjectseq = sb.subjectseq  left outer join tblbook bb  on bb.bookseq = bl.bookseq  left outer join tblcompletestate cs  on cs.completestateseq = en.completestateseq  order by scoreseq; | | | |

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| 뷰 명 | vwteacehrsubjectpoint | 작성일 | 2022-05-20 |
| 기능 | 과목에 대한 성적등록여부가 출력되는 뷰 | 작성자 | 서주예 |
| DML | | | |
| create or replace view vwteacehrsubjectpoint  as  select  t.teacherseq as "교사번호",  i.name as "교사명",  pl.procedurename as "과정명",  op.procedurestart as "과정 시작",  op.procedureend as "과정 끝",  sb.subjectname as "과목명",  sch.subjectstart as "과목 시작",  sch.subjectend as "과목 끝",  bb.bookname as "교재명",  case  when p.attendancepoint is not null then 'Y'  else 'N'  end as "출결점수배점등록",  case  when p.writtenpoint is not null then 'Y'  else 'N'  end as "필기점수배점등록",  case  when p.practicalpoint is not null then 'Y'  else 'N'  end as "실기점수배점등록"  from tblopeningprocedure op  inner join tblprocedurelist pl  on op.procedurelist = pl.procedurelistseq  inner join tblsubjectschedule sch  on op.openingprocedureseq = sch.openingprocedureseq  inner join tblpoint p  on p.subjectscheduleseq = sch.subjectscheduleseq  inner join tblpossiblesubject ps  on ps.possiblesubjectseq = sch.possiblesubjectseq  inner join tblteacher t  on t.teacherseq = ps.teacherseq  inner join tblmemberinfo i  on i.memberinfoseq = t.teacherseq  inner join tblsubject sb  on sb.subjectseq = ps.subjectseq  inner join tblbooklist bl  on bl.subjectseq = sb.subjectseq  inner join tblbook bb  on bb.bookseq = bl.bookseq; | | | |

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| 뷰 명 | vwpointsubject | 작성일 | 2022-05-20 |
| 기능 | 과목에 대한 배점정보가 출력되는 뷰 | 작성자 | 서주예 |
| DML | | | |
| create or replace view vwpointsubject  as  select  p.teacherseq as "교사번호",  i.name as "교사명",  pl.procedurename as "과정명",  o.procedurestart as "과정 시작",  o.procedureend as "과정 끝",  r.roomname as "강의실명",  sb.subjectname as "과목명",  h.subjectstart as "과목 시작",  h.subjectend as "과목 끝",  b.bookname as "교재명",  pp.writtenpoint as "필기비율",  pp.practicalpoint as "실기비율",  pp.attendancepoint as "출결비율"  from tblsubjectSchedule h  inner join tblOpeningProcedure o  on h.openingprocedureseq = o.openingprocedureseq  inner join tblRoom r  on r.roomseq = o.roomseq  inner join tblPossibleSubject p  on p.possiblesubjectseq = h.possiblesubjectseq  inner join tblSubject s  on p.subjectseq = s.subjectseq  inner join tblBookList bl  on bl.subjectseq = s.subjectseq  inner join tblBook b  on b.bookseq = bl.bookseq  inner join tblPoint pp  on pp.subjectscheduleseq = h.subjectscheduleseq  inner join tblprocedurelist pl  on pl.procedurelistseq = o.procedurelist  inner join tblsubject sb  on sb.subjectseq = p.subjectseq  inner join tblteacher t  on t.teacherseq = p.teacherseq  inner join tblmemberinfo i  on i.memberinfoseq = t.memberinfoseq; | | | |

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| 뷰 명 | vwtest | 작성일 | 2022-05-20 |
| 기능 | 과목에 대해 등록된 시험을 출력하는 뷰 | 작성자 | 서주예 |
| DML | | | |
| create or replace view vwtest  as  select  t.testseq as "시험번호",  t.teacherseq as "교사번호",  i.name as "교사명",  pl.procedurename as "과정명",  sb.subjectname as "과목명",  t.testdate as "시험날짜",  tp.typename as "시험유형",  case  when t.testdate is not null then 'Y'  else 'N'  end as "시험등록여부"  from tblTest t  right outer join tblsubjectSchedule s --inner join으로 변경해도 무관  on s.subjectscheduleseq = t.subjectscheduleseq  inner join tblPossiblesubject p  on p.possiblesubjectseq = s.possiblesubjectseq  inner join tblsubject sb  on sb.subjectseq = p.subjectseq  inner join tblopeningprocedure op  on op.openingprocedureseq = s.openingprocedureseq  inner join tblprocedurelist pl  on pl.procedurelistseq = op.procedurelist  inner join tbltype tp  on tp.typeseq = t.typeseq  inner join tblteacher t  on t.teacherseq = p.teacherseq  inner join tblmemberinfo i  on i.memberinfoseq = t.memberinfoseq; | | | |

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| 뷰 명 | vwquestion | 작성일 | 2022-05-20 |
| 기능 | 시험에 등록된 문제를 출력하는 뷰 | 작성자 | 서주예 |
| DML | | | |
| create or replace view question  as  select  th.teacherseq as "교사번호",  t.testseq as "시험번호",  pl.procedurename as "과정명",  sb.subjectname as "과목명",  q.questionseq as "문제번호",  q.question as "문제"  from tblquestion q  inner join tbltest t  on t.testseq = q.testseq  inner join tblsubjectschedule sch  on sch.subjectscheduleseq = t.subjectscheduleseq  inner join tblopeningprocedure op  on op.openingprocedureseq = sch.openingprocedureseq  inner join tblprocedurelist pl  on pl.procedurelistseq = op.procedurelist  inner join tblpossiblesubject ps  on ps.possiblesubjectseq = sch.possiblesubjectseq  inner join tblsubject sb  on sb.subjectseq = ps.subjectseq  inner join tblteacher th  on th.teacherseq = ps.teacherseq  inner join tblmemberinfo i  on i.memberinfoseq = th.memberinfoseq; | | | |

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| 뷰 명 | vwStudentManagement | 작성일 | 2022/05/20 |
| 기능 | 교육생 정보 출력하는 뷰 | 작성자 | 변창현 |
| DML | | | |
| CREATE OR REPLACE VIEW vwStudentManagement AS  SELECT  mi.name as "이름",  s.ssn as "주민번호",  s.tel as "전화번호",  s.regdate as "등록일자",  s.employment as "취업여부",  count(mi.memberinfoseq) as "수강신청 횟수"  FROM tblmemberinfo mi  INNER JOIN tblstudent s  on mi.memberinfoseq = s.memberinfoseq  WHERE mi.memberinfoseq > 10  group by mi.name, s.ssn, s.tel, s.regdate, s.employment; | | | |

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| 뷰 명 | vwstudentinfosearch | 작성일 | 2022/05/20 |
| 기능 | 학생 정보 검색하는 뷰 | 작성자 | 변창현 |
| DML | | | |
| CREATE OR REPLACE VIEW vwstudentinfosearch AS  SELECT  mi.name as "이름",  p.procedurename as "개설과정 정보",  o.procedurestart as "과정 시작일",  o.procedureend as "과정 종료일",  r.roomname as "강의실",  c.completestate as "수료상태 여부",  e.completedate as "수료 및 중도탈락 날짜"  FROM tblmemberinfo mi  INNER JOIN tblstudent s  on mi.memberinfoseq = s.memberinfoseq  INNER JOIN tblenrolment e  on s.studentseq = e.studentseq  INNER JOIN tblopeningprocedure o  on e.openingprocedureseq = o.openingprocedureseq  INNER JOIN tblprocedurelist p  on o.procedurelist = p.procedurelistseq  INNER JOIN tblroom r  on o.roomseq = r.roomseq  INNER JOIN tblcompletestate c  on e.completestateseq = c.completestateseq; | | | |

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| 뷰 명 | vwTestManagementAndGradeCheck | 작성일 | 2022/05/20 |
| 기능 | 과목별 성적 & 시험등록 여부 출력하는 뷰 | 작성자 | 변창현 |
| DML | | | |
| CREATE OR REPLACE VIEW vwTestManagementAndGradeCheck AS  SELECT  pl.procedurename as "개설된 과정 이름",  sb.subjectname as "개설 과목명",  case s.scoresum  when null then 'N'  else 'Y'  end as "성적 등록 여부",  case que.question  when null then 'N'  else 'Y'  end as "시험 파일 등록 여부"  from tblscore s  inner join tblwrittenscore ws  on s.writtenscoreseq = ws.writtenscoreseq  inner join tblpoint p  on s.pointseq = p.pointseq  inner join tblpracticalscore ps  on ps.practicalscoreseq = s.practicalscoreseq  inner join tblAttendanceScore ads  on s.attendancescoreseq = ads.attendancescoreseq  inner join tblenrolment en  on en.enrolmentseq = ads.enrolmentseq  inner join tblstudent sd  on sd.studentseq = en.studentseq  inner join tblmemberinfo mi  on mi.memberinfoseq = sd.memberinfoseq  inner join tblopeningprocedure op  on op.openingprocedureseq = en.openingprocedureseq  inner join tblroom r  on r.roomseq = op.roomseq  inner join tblProcedureList pl  on pl.procedurelistseq = op.procedurelist  inner join tblProcedureSubject psj  on psj.procedurelistseq = pl.procedurelistseq  inner join tblsubjectschedule sch  on sch.subjectscheduleseq = p.subjectscheduleseq  inner join tblpossiblesubject ps  on ps.possiblesubjectseq = sch.possiblesubjectseq  inner join tblsubject sb  on sb.subjectseq = ps.subjectseq  inner join tblteacher t  on ps.teacherseq = t.teacherseq  left outer join tblbooklist bl  on bl.subjectseq = sb.subjectseq  left outer join tblbook bb  on bb.bookseq = bl.bookseq  INNER join tbltest te  on te.subjectscheduleseq = sch.subjectscheduleseq  inner join tblquestion que  on que.testseq = te.testseq  order by scoreseq; | | | |

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| 뷰 명 | vwTestManagementSubject | 작성일 | 2022/05/20 |
| 기능 | 성적정보를 과목별로 출력하는 뷰 | 작성자 | 변창현 |
| DML | | | |
| CREATE OR REPLACE VIEW vwTestManagementSubject AS  SELECT  distinct s.scoreseq,  pl.procedurename as "개설 과정명",  op.procedurestart as "개설 시작기간",  op.procedureend as "개설 종료기간" ,  r.roomname as "강의실명",  sb.subjectname as "개설 과목명",  t.teacherseq as "교사번호",  bb.bookname as "교재명",  mi.name as "학생명",  sd.ssn as "학생 주민번호",  ws.writtenscore \* p.writtenpoint / 100 as "필기",  ps.practicalscore \* p.practicalpoint / 100 as "실기",  ads.attendancescore \* p.attendancepoint / 100 as "출결"    from tblscore s  inner join tblwrittenscore ws  on s.writtenscoreseq = ws.writtenscoreseq  inner join tblpoint p  on s.pointseq = p.pointseq  inner join tblpracticalscore ps  on ps.practicalscoreseq = s.practicalscoreseq  inner join tblAttendanceScore ads  on s.attendancescoreseq = ads.attendancescoreseq  inner join tblenrolment en  on en.enrolmentseq = ads.enrolmentseq  inner join tblstudent sd  on sd.studentseq = en.studentseq  inner join tblmemberinfo mi  on mi.memberinfoseq = sd.memberinfoseq  inner join tblopeningprocedure op  on op.openingprocedureseq = en.openingprocedureseq  inner join tblroom r  on r.roomseq = op.roomseq  inner join tblProcedureList pl  on pl.procedurelistseq = op.procedurelist  inner join tblProcedureSubject psj  on psj.procedurelistseq = pl.procedurelistseq  inner join tblsubjectschedule sch  on sch.subjectscheduleseq = p.subjectscheduleseq  inner join tblpossiblesubject ps  on ps.possiblesubjectseq = sch.possiblesubjectseq  inner join tblsubject sb  on sb.subjectseq = ps.subjectseq  inner join tblteacher t  on ps.teacherseq = t.teacherseq  left outer join tblbooklist bl  on bl.subjectseq = sb.subjectseq  left outer join tblbook bb  on bb.bookseq = bl.bookseq  order by scoreseq; | | | |

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| 뷰 명 | vwTestManagementIndividual | 작성일 | 2022/05/20 |
| 기능 | 교육생 개인별 성적정보 검색하는 뷰 | 작성자 | 변창현 |
| DML | | | |
| CREATE OR REPLACE VIEW vwTestManagementIndividual AS  SELECT  distinct s.scoreseq,  pl.procedurename as "개설 과정명",  op.procedurestart as "개설 시작기간",  op.procedureend as "개설 종료기간" ,  r.roomname as "강의실명",  sb.subjectname as "개설 과목명",  t.teacherseq,  bb.bookname as "교재명",  mi.name as "학생명",  sd.ssn as "학생 주민번호",  ws.writtenscore \* p.writtenpoint / 100 as "필기",  ps.practicalscore \* p.practicalpoint / 100 as "실기",  ads.attendancescore \* p.attendancepoint / 100 as "출결"    from tblscore s  inner join tblwrittenscore ws  on s.writtenscoreseq = ws.writtenscoreseq  inner join tblpoint p  on s.pointseq = p.pointseq  inner join tblpracticalscore ps  on ps.practicalscoreseq = s.practicalscoreseq  inner join tblAttendanceScore ads  on s.attendancescoreseq = ads.attendancescoreseq  inner join tblenrolment en  on en.enrolmentseq = ads.enrolmentseq  inner join tblstudent sd  on sd.studentseq = en.studentseq  inner join tblmemberinfo mi  on mi.memberinfoseq = sd.memberinfoseq  inner join tblopeningprocedure op  on op.openingprocedureseq = en.openingprocedureseq  inner join tblroom r  on r.roomseq = op.roomseq  inner join tblProcedureList pl  on pl.procedurelistseq = op.procedurelist  inner join tblProcedureSubject psj  on psj.procedurelistseq = pl.procedurelistseq  inner join tblsubjectschedule sch  on sch.subjectscheduleseq = p.subjectscheduleseq  inner join tblpossiblesubject ps  on ps.possiblesubjectseq = sch.possiblesubjectseq  inner join tblsubject sb  on sb.subjectseq = ps.subjectseq  inner join tblteacher t  on ps.teacherseq = t.teacherseq  left outer join tblbooklist bl  on bl.subjectseq = sb.subjectseq  left outer join tblbook bb  on bb.bookseq = bl.bookseq  order by scoreseq; | | | |

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| 뷰 명 | vwAttendance | 작성일 | 2022/05/20 |
| 기능 | 출결현황 및 출결조회를 검색하고 출력할때 사용하는 뷰 | 작성자 | 변창현 |
| DML | | | |
| CREATE OR REPLACE VIEW vwAttendance AS  SELECT  p.procedurename as "과정명",  mi.name as "학생이름",  a.attendancedate as "날짜",  a.intime as "입실시간",  a.outtime as "퇴실시간",  at.attendancestatename as "근태상황"    FROM tblmemberinfo mi  INNER JOIN tblstudent s  on mi.memberinfoseq = s.memberinfoseq  INNER JOIN tblenrolment e  on s.studentseq = e.studentseq  INNER JOIN tblattendance a  on e.enrolmentseq = a.enrolmentseq  INNER JOIN tblopeningprocedure o  on e.openingprocedureseq = o.openingprocedureseq  INNER JOIN tblprocedurelist p  on o.procedurelist = p.procedurelistseq  INNER JOIN tblattendancestate at  on at.attendancestateseq = a.attendancestateseq; | | | |

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| 뷰 명 | vwEquipmentManage | 작성일 | 2022/05/20 |
| 기능 | 기자재 검색 및 목록 출력할때 사용하는 뷰 | 작성자 | 변창현 |
| DML | | | |
| CREATE OR REPLACE VIEW vwEquipmentManage AS  SELECT  ec.categoryname as "기자재 카테고리",  e.equipmentname as "기자재 이름",  es.statename as "기자재 사용가능 여부",  r.roomname as "기자재 사용 위치",  e.importdate as "반입 날짜"    FROM tblequipment e  INNER JOIN tblroom r  on e.roomseq = r.roomseq  INNER JOIN tblequipmentstate es  on e.equipmentstateseq = es.equipmentstateseq  INNER JOIN tblequipmentcategory ec  on e.categoryseq = ec.categoryseq; | | | |

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| 뷰 명 | C.03 vwComunity | 작성일 | 2022/05/20 |
| 기능 | 커뮤니티 글 조회 | 작성자 | 정혜인 |
| DML | | | |
| create or replace view vwcomunity  as  select  c.comunityseq as 글번호,  (select categoryname from tblcommucategory where categoryseq = c.categoryseq) as 카테고리명,  c.categoryseq as 카테고리번호,  (select name from tblmemberinfo where memberinfoseq =  (select memberinfoseq from tblmember where memberseq = c.memberseq))  as 작성자명,  c.writedate as 작성날짜,  c.contents as 글내용,  c.answer as 답변여부,  (select count(\*) from tblcomment where comunityseq =c.comunityseq) as 댓글수,  c.subjectscheduleseq as"과정과목번호",  c.memberseq as "멤버번호",  (select procedurename from tblprocedurelist where procedurelistseq = (select procedurelist from tblopeningprocedure  where openingprocedureseq = (select openingprocedureseq from tblsubjectschedule  where subjectscheduleseq = c.subjectscheduleseq)  ))as 과정명  from tblcomunity c; | | | |

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| 뷰 명 | vwAdminComuView | 작성일 | 2022-05-21 |
| 기능 | 커뮤니티 글 전체 출력되는 뷰 | 작성자 | 정병직 |
| DML | | | |
| create or replace view vwAdminComuView  as  select  c.comunityseq as "글번호",  op.openingProcedureSeq "개설과정번호",  pl.procedurename as "과정명",  case  when c.categoryseq = 1 then '공지사항'  when c.categoryseq = 2 then '질문'  when c.categoryseq = 3 then '잡담'  end as "카테고리",  i.name as "작성자",  c.writedate as "작성날짜",  c.contents as "내용",  c.answer as "답변여부",  (select count(\*) from tblcomment group by comunityseq having comunityseq = c.comunityseq) as "댓글수"  from tblcomunity c  inner join tblmember m  on c.memberseq = m.memberseq  inner join tblmemberinfo i  on m.memberinfoseq = i.memberinfoseq  inner join tblEnrolment e  on e.enrolmentSeq = m.enrolmentSeq  left join tblOpeningProcedure op  on op.openingprocedureseq = e.openingprocedureseq  inner join tblProcedureList pl  on pl.procedurelistseq = op.procedureList  order by c.comunityseq; | | | |

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| 뷰 명 | vwAdminCommView | 작성일 | 2022-05-21 |
| 기능 | 커뮤니티 댓글 전체 출력되는 뷰 | 작성자 | 정병직 |
| DML | | | |
| create or replace view vwAdminCommView  as  select  c.comunityseq as "글번호",  mi.name as "작성자",  c.commentcontents as "댓글내용",  c.commentseq as "댓글번호"  from tblcomment c  inner join tblmember m  on c.memberseq = m.memberseq  inner join tblmemberinfo mi  on m.memberinfoseq = mi.memberinfoseq  order by c.comunityseq; | | | |

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| 뷰 명 | vwProcedureRateCheck | 작성일 | 2022-05-21 |
| 기능 | 과정 평가 정보를 출력하는 뷰 | 작성자 | 정병직 |
| DML | | | |
| create or replace view vwProcedureRateCheck  as  select  p.procedurerate as "과정평가번호",  pl.procedurename as "개설과정명" ,  mi.name as "학생명",  p.ratescore as "평점",  p.ratecontents as "과정 평가 내용",  p.proceduredate as "작성날짜"  from tblProcedureRate p  inner join tblOpeningProcedure o  on p.openingprocedureseq = o.openingprocedureseq  inner join tblProcedureList pl  on o.procedurelist = pl.procedurelistseq  inner join tblenrolment e  on e.enrolmentseq = p.enrolmentseq  inner join tblstudent s  on s.studentseq = e.studentseq  inner join tblmemberinfo mi  on mi.memberinfoseq = s.memberinfoseq  order by p.procedurerate; | | | |

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| 뷰 명 | vwAddStudy | 작성일 | 2022-05-17 |
| 기능 | 보충학습 관리 및 출력하는 뷰 | 작성자 | 정병직 |
| DML | | | |
| create or replace view vwAddStudy  as  select  a.scoreseq,  a."과정명",  a."과목명",  a."학생명",  a."필기점수",  a."실기점수",  a."출결점수",  a."총점",  mi.name as "교사명",  a."강의실"  from (  select  distinct s.scoreseq,  ws.writtenscore \* p.writtenpoint / 100 as "필기점수",  ps.practicalscore \* p.practicalpoint / 100 as "실기점수",  ads.attendancescore \* p.attendancepoint / 100 as "출결점수",  ws.writtenscore \* p.writtenpoint / 100 +  ps.practicalscore \* p.practicalpoint / 100 +  ads.attendancescore \* p.attendancepoint / 100 as "총점",  mi.name as "학생명",  r.roomname as "강의실",  pl.procedurename as "과정명",  sb.subjectname as "과목명",  tea.memberinfoseq  from tblscore s  inner join tblwrittenscore ws  on s.writtenscoreseq = ws.writtenscoreseq  inner join tblpoint p  on s.pointseq = p.pointseq  inner join tblpracticalscore ps  on ps.practicalscoreseq = s.practicalscoreseq  inner join tblAttendanceScore ads  on s.attendancescoreseq = ads.attendancescoreseq  inner join tblenrolment en  on en.enrolmentseq = ads.enrolmentseq  inner join tblstudent sd  on sd.studentseq = en.studentseq  inner join tblmemberinfo mi  on mi.memberinfoseq = sd.memberinfoseq  inner join tblopeningprocedure op  on op.openingprocedureseq = en.openingprocedureseq  inner join tblroom r  on r.roomseq = op.roomseq  inner join tblProcedureList pl  on pl.procedurelistseq = op.procedurelist  inner join tblProcedureSubject psj  on psj.procedurelistseq = pl.procedurelistseq  inner join tblsubjectschedule sch  on sch.subjectscheduleseq = p.subjectscheduleseq  inner join tblpossiblesubject ps  on ps.possiblesubjectseq = sch.possiblesubjectseq  inner join tblsubject sb  on sb.subjectseq = ps.subjectseq  inner join tblteacher tea  on tea.teacherseq = ps.teacherseq  order by scoreseq) a inner join tblmemberinfo mi on mi.memberinfoseq = a.memberinfoseq where "총점" < 70; | | | |

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| 뷰 명 | vwTeacherCheck | 작성일 | 2022-05-17 |
| 기능 | 강의 스케줄 출력하는 뷰 | 작성자 | 정병직 |
| DML | | | |
| create or replace view vwTeacherCheck  as  select  pl.procedurename as "과정명",  op.procedurestart as "과정시작날짜",  op.procedureend as "과정종료날짜",  sj.subjectname as "과목명",  ss.subjectstart as "과목시작날짜",  ss.subjectend as "과목종료날짜",  case  when subjectstart > sysdate then '강의예정'  when subjectstart < sysdate and subjectend > sysdate then '강의중'  when subjectend < sysdate then '강의종료'  end as "강의진행사항",  r.roomname as "강의실",  b.bookname as "교재명",  op.studentsum as "교육생 등록 인원",  mi.id as "아이디",  substr(t.ssn, 8) as "비밀번호"  from tblSubjectSchedule ss  inner join tblPossibleSubject ps  on ss.possiblesubjectseq = ps.possiblesubjectseq  inner join tblteacher t  on ps.teacherseq = t.teacherseq  inner join tblmemberinfo mi  on mi.memberinfoseq = t.memberinfoseq  inner join tblopeningprocedure op  on op.openingprocedureseq = ss.openingprocedureseq  inner join tblProcedureList pl  on pl.procedurelistseq = op.procedurelist  inner join tblSubject sj  on sj.subjectseq = ps.subjectseq  inner join tblroom r  on r.roomseq = op.roomseq  inner join tblBookList bl  on bl.subjectseq = sj.subjectseq  inner join tblbook b  on b.bookseq = bl.bookseq  order by subjectscheduleseq; | | | |

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| 뷰 명 | vwStudentInfoCheck | 작성일 | 2022-05-20 |
| 기능 | 특정 과목 수강 교육생 정보 조회 | 작성자 | 정병직 |
| DML | | | |
| create or replace view vwStudentInfoCheck  as  select  s.studentseq "학생번호",  pl.procedurename as "과정명",  mi.name as "학생명",  s.tel as "전화번호",  s.regdate "등록일",  case  when e.completestateseq = 1 then '수료'  when e.completestateseq = 2 then '중도탈락'  end as "수료여부",  sj.subjectseq as "과목번호"  from tblstudent s  inner join tblmemberinfo mi  on mi.memberinfoseq = s.memberinfoseq  inner join tblenrolment e  on e.studentseq = s.studentseq  inner join tblopeningprocedure op  on e.openingprocedureseq = op.openingprocedureseq  inner join tblProcedureList pl  on pl.procedurelistseq = op.procedurelist  inner join tblproceduresubject psj  on psj.procedurelistseq = op.procedurelist  inner join tblsubject sj  on sj.subjectseq = psj.subjectseq  order by s.studentseq; | | | |

3. Function

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| --- | --- | --- | --- |
| 함수 명 | fnStuednetSeq | 작성일 | 2022/05/20 |
| 기능 | 교육생 아이디 입력하면 학생번호 반환하는 함수 | 작성자 | 정혜인 |
| DML | | | |
| create or replace function fnstudentSeq(  pid varchar2  )return number  is  vstuseq number;  begin  select studentseq into vstuseq from tblstudent where memberinfoseq = (select memberinfoseq from tblmemberinfo where id = pid); --학생번호17  return vstuseq;  end; | | | |

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| --- | --- | --- | --- |
| 함수 명 | fngetenrol | 작성일 | 2022/05/20 |
| 기능 | 교육생 아이디 입력하면 수강신청번호 반환하는 함수 | 작성자 | 정혜인 |
| DML | | | |
| create or replace function fngetenrol(  pid varchar2  )return number  is  venrolseq number;  begin  select enrolmentseq into venrolseq from tblenrolment  where studentseq =  (select studentseq from tblstudent where memberinfoseq = (select memberinfoseq from tblmemberinfo where id = pid))  and enrolmentstateseq = 1; --학생번호17  return venrolseq;  end; | | | |

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| --- | --- | --- | --- |
| 함수 명 | fnGetsubjectseq | 작성일 | 2022-05-20 |
| 기능 | 과목명을 입력하면 과목스케줄조회를 반환하는 함수 | 작성자 | 서주예 |
| DML | | | |
| create or replace function fnGetsubjectseq(  pteacherseq in number,  psubjectname in varchar2,  popeningprocedureseq in number  ) return number  is  vsubjectscheduleseq number;  begin  select  sch.subjectscheduleseq into vsubjectscheduleseq  from tblsubject sb  inner join tblpossiblesubject ps  on sb.subjectseq = ps.subjectseq  inner join tblsubjectschedule sch  on sch.possiblesubjectseq = ps.possiblesubjectseq  inner join tblteacher t  on t.teacherseq = ps.teacherseq  where t.teacherseq = pteacherseq and sb.subjectname = psubjectname and sch.openingprocedureseq = popeningprocedureseq;  return vsubjectscheduleseq;  end; | | | |

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| --- | --- | --- | --- |
| 함수 명 | fntesttype | 작성일 | 2022-05-20 |
| 기능 | 시험 유형을 작성하면 유형번호가 반환되는 함수 | 작성자 | 서주예 |
| DML | | | |
| create or replace function fntesttype(  ptypename in varchar2  ) return number  is  vtypeseq number;  begin  select typeseq into vtypeseq from tbltype where typename = ptypename;  return vtypeseq;  end fntesttype; | | | |

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| --- | --- | --- | --- |
| 함수 명 | fnteacherSeq | 작성일 | 2022-05-20 |
| 기능 | 선생님 아이디를 입력하면 선생님 번호가 출력되는 함수 | 작성자 | 서주예 |
| DML | | | |
| create or replace function fnteacherSeq(  pid varchar2  )return number  is  vteachseq number;  begin  select teacherseq into vteachseq from tblteacher  where memberinfoseq = (select memberinfoseq  from tblmemberinfo where id = pid);  return vteachseq;  end;  commit; | | | |

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| --- | --- | --- | --- |
| 함수 명 | fnenrolmentseq | 작성일 | 2022-05-20 |
| 기능 | 학생 이름을 입력하면 수강신청번호를 반환하는 함수 | 작성자 | 서주예 |
| DML | | | |
| create or replace function fnenrolmentseq(  pname in varchar2 --학생이름  ) return number  is  venrolmentseq number;  begin  select e.enrolmentseq into venrolmentseq  from tblenrolment e  inner join tblstudent st  on e.studentseq = st.studentseq  inner join tblmemberinfo i  on i.memberinfoseq = st.memberinfoseq  where i.name = pname;    return venrolmentseq;  end fnenrolmentseq; | | | |

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| --- | --- | --- | --- |
| 함수 명 | fnequipmentstate | 작성일 | 2022-05-20 |
| 기능 | 기자재 상태를 입력하면 번호를 반환하는 함수 | 작성자 | 서주예 |
| DML | | | |
| create or replace function fnequipmentstate(  pstate in varchar  ) return number  is  vseq number;  begin  select equipmentstateseq into vseq from tblequipmentstate where statename = pstate;  return vseq;  end fnequipmentstate; | | | |

4. Sequence

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| 시퀀스 명 | seqTblCommuCategory | 작성일 | 2022-05-20 |
| 기능 | 커뮤니티 카테고리 테이블 번호 | 작성자 | 서주예 |
| DML | | | |
| create sequence seqTblCommuCategory; | | | |

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| --- | --- | --- | --- |
| 시퀀스 명 | tblAdminSeq | 작성일 | 2022-05-20 |
| 기능 | 관리자 테이블 번호 | 작성자 | 서주예 |
| DML | | | |
| create sequence tblAdminSeq; | | | |

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| --- | --- | --- | --- |
| 시퀀스 명 | tblPossibleSubjectSeq; | 작성일 | 2022-05-20 |
| 기능 | 가능과목 테이블 번호 | 작성자 | 서주예 |
| DML | | | |
| create sequence tblPossibleSubjectSeq; | | | |

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| --- | --- | --- | --- |
| 시퀀스 명 | tblEnrolmentSeq | 작성일 | 2022-05-20 |
| 기능 | 수강신청 테이블 번호 | 작성자 | 서주예 |
| DML | | | |
| create sequence tblEnrolmentSeq; | | | |

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| --- | --- | --- | --- |
| 시퀀스 명 | seqCommunity | 작성일 | 2022-05-20 |
| 기능 | 커뮤니티 테이블 번호 | 작성자 | 서주예 |
| DML | | | |
| create sequence seqCommunity; | | | |

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| --- | --- | --- | --- |
| 시퀀스 명 | seqComment | 작성일 | 2022-05-20 |
| 기능 | 댓글 테이블 번호 | 작성자 | 서주예 |
| DML | | | |
| create sequence seqComment; | | | |

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| --- | --- | --- | --- |
| 시퀀스 명 | seqtblScore | 작성일 | 2022-05-20 |
| 기능 | 성적 테이블 번호 | 작성자 | 서주예 |
| DML | | | |
| create sequence seqtblScore; | | | |

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| --- | --- | --- | --- |
| 시퀀스 명 | seqAttendance | 작성일 | 2022/05/20 |
| 기능 | 출결테이블 출결번호 나타내는 시퀀스 | 작성자 | 정혜인 |
| DML | | | |
| create sequence seqAttendance10; | | | |

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| --- | --- | --- | --- |
| 시퀀스 명 | seqSubject | 작성일 | 2022/05/20 |
| 기능 | 과목테이블 과목번호 나타내는 시퀀스 | 작성자 | 정혜인 |
| DML | | | |
| create sequnece seqSubject; | | | |

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| --- | --- | --- | --- |
| 시퀀스 명 | seqPoint | 작성일 | 2022/05/20 |
| 기능 | 배점테이블 배점번호 나타내는 시퀀스 | 작성자 | 정혜인 |
| DML | | | |
| create sequence seqPoint; | | | |

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| --- | --- | --- | --- |
| 시퀀스 명 | seqWritten | 작성일 | 2022/05/20 |
| 기능 | 필기점수테이블 필기점수 번호 나타내는 시퀀스 | 작성자 | 정혜인 |
| DML | | | |
| create sequence seqWritten; | | | |