**데이터 쿼리문(ANSI-SQL)**

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| 요구사항번호 | A01 | 작성일 | 2022-05-17 |
| 요구사항명 | 기초 정보 관리 | 작성자 | 염규준 |
| DML | | | |
| 1. 출력  SELECT  pl.PROCEDURENAME AS "과정명",  s.SUBJECTNAME AS "과목명",  r.ROOMNAME AS "강의실명",  r.ROOMSUM AS "강의실정원",  b.BOOKNAME AS "교재명",  p.PUBLISHERNAME AS "출판사명"  FROM TBLPROCEDURESUBJECT ps  INNER JOIN TBLSUBJECT s  ON ps.SUBJECTSEQ = s.SUBJECTSEQ  INNER JOIN TBLBOOKLIST bl  ON s.SUBJECTSEQ = bl.SUBJECTSEQ  INNER JOIN TBLBOOK b  ON bl.BOOKSEQ = b.BOOKSEQ  INNER JOIN TBLPUBLISHER p  ON b.PUBLISHERSEQ = p.PUBLISHERSEQ  INNER JOIN TBLPROCEDURELIST pl  ON ps.PROCEDURELISTSEQ = pl.PROCEDURELISTSEQ  INNER JOIN TBLOPENINGPROCEDURE op  ON pl.PROCEDURELISTSEQ = op.PROCEDURELIST  INNER JOIN TBLROOM r  ON op.ROOMSEQ = r.ROOMSEQ;  2. 입력  INSERT INTO TBLPROCEDURELIST VALUES ((SELECT max(PROCEDURELISTSEQ)+1 FROM TBLPROCEDURELIST) , '과정명');  INSERT INTO TBLSUBJECT VALUES (seqSubject.nextVal, '과목명');  INSERT INTO TBLROOM VALUES ((SELECT max(ROOMSEQ)+1 FROM TBLROOM), '강의실명', '정원');  INSERT INTO TBLBOOK VALUES ((SELECT max(BOOKSEQ)+1 FROM TBLBOOK), '교재명', '출판사번호');  INSERT INTO TBLPUBLISHER VALUES ((SELECT max(PUBLISHERSEQ)+1 FROM TBLPUBLISHER), '출판사명');  3. 수정  UPDATE TBLPROCEDURELIST SET PROCEDURENAME = '과정명' WHERE PROCEDURENAME = '과정명';  UPDATE TBLSUBJECT SET SUBJECTNAME = '과목명' WHERE SUBJECTNAME = '과목명';  UPDATE TBLROOM SET ROOMNAME = '강의실명' WHERE ROOMNAME = '강의실명';  UPDATE TBLBOOK SET BOOKNAME = '교재명' WHERE BOOKNAME = '교재명';  UPDATE TBLPUBLISHER SET PUBLISHERNAME = '출판사명' WHERE PUBLISHERNAME = '출판사명';  4. 삭제  DELETE FROM TBLPROCEDURELIST WHERE PROCEDURENAME = '과정명';  DELETE FROM TBLSUBJECT WHERE SUBJECTNAME = '과목명';  DELETE FROM TBLROOM WHERE ROOMNAME = '강의실명';  DELETE FROM TBLBOOK WHERE BOOKNAME = '교재명';  DELETE FROM TBLPUBLISHER WHERE PUBLISHERNAME = '출판사명'; | | | |

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| 요구사항번호 | A02 | 작성일 | 2022-05-17 |
| 요구사항명 | 교사 계정 관리 | 작성자 | 염규준 |
| DML | | | |
| 1. 전체 출력  SELECT  mi.NAME AS "교사명",  SUBSTR(t.SSN, -7) AS "주민번호 뒷자리",  t.TEL AS "전화번호",  s.SUBJECTNAME AS "강의 가능 과목"  FROM TBLTEACHER t  INNER JOIN TBLPOSSIBLESUBJECT ps  ON t.TEACHERSEQ = ps.TEACHERSEQ  INNER JOIN TBLSUBJECT s  ON ps.SUBJECTSEQ = s.SUBJECTSEQ  INNER JOIN TBLMEMBERINFO mi  ON t.MEMBERINFOSEQ = mi.MEMBERINFOSEQ;  2. 특정 과목 출력  SELECT  s.SUBJECTNAME AS "개설 과목명",  ss.SUBJECTSTART AS "과목 시작 날짜",  ss.SUBJECTEND AS "과목 종료 날짜",  b.BOOKNAME AS "교재명",  r.ROOMNAME AS "강의실명",  es.ENROLMENTSTATENAME AS "강의 진행 여부"  FROM TBLMEMBERINFO mi  INNER JOIN TBLTEACHER t  ON mi.MEMBERINFOSEQ = t.MEMBERINFOSEQ  INNER JOIN TBLPOSSIBLESUBJECT ps  ON t.TEACHERSEQ = ps.TEACHERSEQ  INNER JOIN TBLSUBJECT s  ON ps.SUBJECTSEQ = s.SUBJECTSEQ  INNER JOIN TBLBOOKLIST bl  ON s.SUBJECTSEQ = bl.SUBJECTSEQ  INNER JOIN TBLBOOK b  ON bl.BOOKSEQ = b.BOOKSEQ  INNER JOIN TBLSUBJECTSCHEDULE ss  ON ps.POSSIBLESUBJECTSEQ = ss.SUBJECTSCHEDULESEQ  INNER JOIN TBLOPENINGPROCEDURE op  ON ss.OPENINGPROCEDURESEQ = op.OPENINGPROCEDURESEQ  INNER JOIN TBLROOM r  ON op.ROOMSEQ = r.ROOMSEQ  INNER JOIN TBLENROLMENT e  ON op.OPENINGPROCEDURESEQ = e.OPENINGPROCEDURESEQ  INNER JOIN TBLENROLMENTSTATE es  ON e.ENROLMENTSTATESEQ = es.ENROLMENTSTATESEQ  WHERE mi.NAME = '교사명';  3. 입력  INSERT INTO TBLMEMBERINFO VALUES ((SELECT max(MEMBERINFOSEQ)+1 FROM TBLMEMBERINFO), '이름', '아이디');  INSERT INTO TBLTEACHER VALUES (seqTeacher.nextVal, '주민번호', '전화번호', 멤버정보번호);  INSERT INTO TBLPOSSIBLESUBJECT VALUES ((SELECT max(POSSIBLESUBJECTSEQ)+1 FROM TBLPOSSIBLESUBJECT), '교사번호','과목번호');  4. 수정  UPDATE TBLMEMBERINFO mi SET mi.NAME = pname, mi.ID = pid WHERE mi.MEMBERINFOSEQ = 멤버정보번호;  UPDATE TBLTEACHER t SET t.SSN = pssn, t.TEL = ptel WHERE t.TEACHERSEQ = 교사번호;  UPDATE TBLPOSSIBLESUBJECT pss SET pss.SUBJECTSEQ = psubnum WHERE pss.TEACHERSEQ = 교사번호;  5. 삭제  DELETE FROM TBLPOSSIBLESUBJECT WHERE TEACHERSEQ = 교사번호;  DELETE FROM TBLTEACHER WHERE TEACHERSEQ = 교사번호;  DELETE FROM TBLMEMBERINFO WHERE ID = 멤버아이디; | | | |

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| 요구사항번호 | A03 | 작성일 | 2022-05-17 |
| 요구사항명 | 개설 과정 관리 | 작성자 | 염규준 |
| DML | | | |
| 1. 전체 출력  SELECT  distinct pl.PROCEDURENAME AS "과정명",  op.PROCEDURESTART AS "시작일",  op.PROCEDUREEND AS "종료일",  r.ROOMNAME AS "강의실명",  count(e.STUDENTSEQ) AS "등록인원"  FROM TBLOPENINGPROCEDURE op  INNER JOIN TBLPROCEDURELIST pl  ON op.PROCEDURELIST = pl.PROCEDURELISTSEQ  INNER JOIN TBLPROCEDURESUBJECT ps  ON pl.PROCEDURELISTSEQ = ps.PROCEDURELISTSEQ  INNER JOIN TBLSUBJECT s  ON ps.SUBJECTSEQ = s.SUBJECTSEQ  INNER JOIN TBLROOM r  ON op.ROOMSEQ = r.ROOMSEQ  INNER JOIN TBLENROLMENT e  ON op.OPENINGPROCEDURESEQ = e.OPENINGPROCEDURESEQ  GROUP BY op.OPENINGPROCEDURESEQ , pl.PROCEDURENAME ,  op.PROCEDURESTART , op.PROCEDUREEND , r.ROOMNAME , e.STUDENTSEQ  ORDER BY pl.PROCEDURENAME;  2. 특정 과정  SELECT  distinct s.SUBJECTNAME AS "과목명",  ss.SUBJECTSTART AS "과목시작",  ss.SUBJECTEND AS "과목끝",  b.BOOKNAME AS "교재명",  mi.NAME AS "교사명"  FROM TBLOPENINGPROCEDURE op  INNER JOIN TBLPROCEDURELIST pl  ON op.PROCEDURELIST = pl.PROCEDURELISTSEQ  INNER JOIN TBLPROCEDURESUBJECT ps  ON pl.PROCEDURELISTSEQ = ps.PROCEDURELISTSEQ  INNER JOIN TBLSUBJECT s  ON ps.SUBJECTSEQ = s.SUBJECTSEQ  INNER JOIN TBLROOM r  ON op.ROOMSEQ = r.ROOMSEQ  INNER JOIN TBLENROLMENT e  ON op.OPENINGPROCEDURESEQ = e.OPENINGPROCEDURESEQ  INNER JOIN TBLSUBJECTSCHEDULE ss  ON op.OPENINGPROCEDURESEQ = ss.OPENINGPROCEDURESEQ  INNER JOIN TBLBOOKLIST bl  ON s.SUBJECTSEQ = bl.SUBJECTSEQ  INNER JOIN TBLBOOK b  ON bl.BOOKSEQ = b.BOOKSEQ  INNER JOIN TBLPOSSIBLESUBJECT pss  ON ss.POSSIBLESUBJECTSEQ = pss.POSSIBLESUBJECTSEQ  INNER JOIN TBLTEACHER t  ON pss.TEACHERSEQ = t.TEACHERSEQ  INNER JOIN TBLMEMBERINFO mi  ON t.MEMBERINFOSEQ = mi.MEMBERINFOSEQ  WHERE op.OPENINGPROCEDURESEQ = '11'  order by ss.SUBJECTSTART;  3. 교육생 정보 출력  SELECT  mi.NAME AS "교육생 이름" ,  SUBSTR(s.SSN, -7) AS "주민번호 뒷자리" ,  TO\_CHAR(s.REGDATE, 'YYYY/MM/DD') AS "등록일" ,  es.ENROLMENTSTATENAME AS "수료여부"  FROM TBLENROLMENT e  INNER JOIN TBLSTUDENT s  ON e.STUDENTSEQ = s.STUDENTSEQ  INNER JOIN TBLMEMBERINFO mi  ON s.MEMBERINFOSEQ = mi.MEMBERINFOSEQ  INNER JOIN TBLENROLMENTSTATE es  ON e.ENROLMENTSTATESEQ = es.ENROLMENTSTATESEQ;  4. 입력  INSERT INTO tblopeningprocedure  VALUES (SEQOPENINGPROCEDURE.nextVal, 강의실번호, to\_date(시작일,'YYYY-MM-DD'), to\_date(종료일,'YYYY-MM-DD'), 정원, 과정번호);  5. 수정  UPDATE TBLOPENINGPROCEDURE  SET ROOMSEQ = 강의실번호,  PROCEDURESTART = to\_Date(시작일,'YYYY-MM-DD'),  PROCEDUREEND = to\_Date(종료일,'YYYY-MM-DD'),  STUDENTSUM = 정원,  PROCEDURELIST = 과정정보  WHERE OPENINGPROCEDURESEQ = 개설과정번호;  6. 삭제  DELETE FROM TBLOPENINGPROCEDURE WHERE OPENINGPROCEDURESEQ = 개설과정번호; | | | |

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| 요구사항번호 | A04 | 작성일 | 2022-05-17 |
| 요구사항명 | 개설 과목 관리 | 작성자 | 염규준 |
| DML | | | |
| 1. 전체 출력  SELECT  distinct op.OPENINGPROCEDURESEQ,  pl.PROCEDURENAME AS "과정명",  op.PROCEDURESTART AS "과정시작" ,  op.PROCEDUREEND AS "과정끝" ,  r.ROOMNAME AS "강의실" ,  s.SUBJECTNAME AS "과목명" ,  ss.SUBJECTSTART AS "과목시작" ,  ss.SUBJECTEND AS "과목끝" ,  b.BOOKNAME AS "교재명",  mi.NAME AS "교사"  FROM TBLOPENINGPROCEDURE op  INNER JOIN TBLPROCEDURELIST pl -- 과정명  ON op.PROCEDURELIST = pl.PROCEDURELISTSEQ  INNER JOIN TBLPROCEDURESUBJECT ps  ON pl.PROCEDURELISTSEQ = ps.PROCEDURELISTSEQ  INNER JOIN TBLSUBJECT s -- 과목명  ON ps.SUBJECTSEQ = s.SUBJECTSEQ  INNER JOIN TBLBOOKLIST bl  ON s.SUBJECTSEQ = bl.SUBJECTSEQ  INNER JOIN TBLBOOK b  ON bl.BOOKSEQ = b.BOOKSEQ  INNER JOIN TBLROOM r  ON op.ROOMSEQ = r.ROOMSEQ  INNER JOIN TBLSUBJECTSCHEDULE ss  ON op.OPENINGPROCEDURESEQ = ss.OPENINGPROCEDURESEQ  INNER JOIN TBLPOSSIBLESUBJECT pss  ON s.SUBJECTSEQ = pss.SUBJECTSEQ  INNER JOIN TBLTEACHER t  ON pss.TEACHERSEQ = t.TEACHERSEQ  INNER JOIN TBLMEMBERINFO mi  ON t.MEMBERINFOSEQ = mi.MEMBERINFOSEQ  WHERE op.OPENINGPROCEDURESEQ = 11  ORDER BY ss.SUBJECTSTART;    2. 입력  INSERT INTO TBLPOSSIBLESUBJECT VALUES(TBLPOSSIBLESUBJECTSEQ.nextVal, 교사번호, 과목번호);  INSERT INTO TBLSUBJECTSCHEDULE VALUES(SEQSUBSCHEDULE.nextVal, to\_Date(과목시작일,'YYYY-MM-DD'), to\_Date(과목종료일,'YYYY-MM-DD'), 개설과정번호 , 가능과목번호);  3. 수정  UPDATE TBLSUBJECTSCHEDULE  SET SUBJECTSTART = to\_date(과목시작일,'YYYY-MM-DD'),  SUBJECTEND = to\_date(과목종료일,'YYYY-MM-DD'),  OPENINGPROCEDURESEQ = 개설과정번호,  POSSIBLESUBJECTSEQ = 가능과목번호  WHERE SUBJECTSCHEDULESEQ = 과목스케줄번호;  UPDATE TBLPOSSIBLESUBJECT  SET TEACHERSEQ = 교사번호,  SUBJECTSEQ = 가능과목번호  WHERE POSSIBLESUBJECTSEQ = 가능과목번호;  4. 삭제  DELETE FROM TBLSUBJECTSCHEDULE WHERE SUBJECTSCHEDULESEQ = 과목스케줄번호;  DELETE FROM TBLPOSSIBLESUBJECT WHERE POSSIBLESUBJECTSEQ = 가능과목번호; | | | |

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| 요구사항번호 | A.05 | 작성일 | 2022-05-20 |
| 요구사항명 | 교육생 정보 출력 | 작성자 | 변창현 |
| DML | | | |
| 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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| 요구사항번호 | A.05 | 작성일 | 2022-05-20 |
| 요구사항명 | 교육생 정보 검색 | 작성자 | 변창현 |
| DML | | | |
| 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  where "이름" = '천혜현'; | | | |

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| 요구사항번호 | A.06 | 작성일 | 2022-05-20 |
| 요구사항명 | 시험관리 및 성적 조회 | 작성자 | 변창현 |
| DML | | | |
| 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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| 요구사항번호 | A.06 | 작성일 | 2022-05-20 |
| 요구사항명 | 과목별 성적 출력 | 작성자 | 변창현 |
| DML | | | |
| 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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| 요구사항번호 | A.06 | 작성일 | 2022-05-20 |
| 요구사항명 | 교육생 개인별 성적 출력 | 작성자 | 변창현 |
| DML | | | |
| 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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| 요구사항번호 | A.07 | 작성일 | 2022-05-20 |
| 요구사항명 | 출결 관리 및 출결 조회 | 작성자 | 변창현 |
| DML | | | |
| 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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| 요구사항번호 | A.07 | 작성일 | 2022-05-20 |
| 요구사항명 | 출결 현황을 기간별(년, 월, 일) 조회 | 작성자 | 변창현 |
| DML | | | |
| -- 연도별  SELECT \* FROM vwattendancesearch  where substr("날짜", 1, 2) = 22;  -- 월별  SELECT \* FROM vwattendancesearch  where substr("날짜", 4, 2) = 05;  -- 일별  SELECT \* FROM vwattendancesearch  where substr("날짜", 7, 2) = 19; | | | |

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| 요구사항번호 | A.07 | 작성일 | 2022-05-20 |
| 요구사항명 | 과정별 검색 | 작성자 | 변창현 |
| DML | | | |
| SELECT \* FROM vwAttendance  WHERE "과정명" = '반응형 UI/UX 웹콘텐츠 개발자 양성과정A5'; | | | |

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| 요구사항번호 | A.07 | 작성일 | 2022-05-20 |
| 요구사항명 | 인원별 검색 | 작성자 | 변창현 |
| DML | | | |
| SELECT \* FROM vwAttendance  WHERE "학생이름" = '최민진'; | | | |

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| 요구사항번호 | A.08 | 작성일 | 2022-05-20 |
| 요구사항명 | 기자재 목록 | 작성자 | 변창현 |
| DML | | | |
| 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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| 요구사항번호 | A.08 | 작성일 | 2022-05-20 |
| 요구사항명 | 카테고리별 출력 | 작성자 | 변창현 |
| DML | | | |
| SELECT \* FROM vwEquipmentManage  WHERE "기자재 카테고리" = '키보드'; | | | |

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| 요구사항번호 | A.08 | 작성일 | 2022-05-20 |
| 요구사항명 | 사용 위치별 출력 | 작성자 | 변창현 |
| DML | | | |
| SELECT \* FROM vwEquipmentManage  WHERE "기자재 사용 위치" = '1강의실'; | | | |

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| 요구사항번호 | A.08 | 작성일 | 2022-05-20 |
| 요구사항명 | 기자재별 출력 | 작성자 | 변창현 |
| DML | | | |
| SELECT  "기자재 이름",  COUNT(\*) as 수량    FROM vwEquipmentManage  group by "기자재 이름"; | | | |

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| 요구사항번호 |  | 작성일 |  |
| 요구사항명 |  | 작성자 |  |
| DML | | | |
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| 요구사항번호 | C.02 | 작성일 | 2022/05/20 |
| 요구사항명 | 출결 조회 | 작성자 | 정혜인 |
| DML | | | |
| --전체 출력  select attendancedate, intime, outtime,  (select attendancestatename from tblattendancestate  where attendancestateseq = a.attendancestateSeq) as 출결상태  from tblAttendance a where enrolmentseq = 1;  --월별 출력  select attendancedate, intime, outtime,  (select attendancestatename from tblattendancestate  where attendancestateseq = a.attendancestateSeq) as 출결상태  from tblAttendance a  where enrolmentseq = 1 and substr(a.attendancedate, 4,2) = 11;    --일별 출력  select attendancedate, intime, outtime,  (select attendancestatename from tblattendancestate  where attendancestateseq = a.attendancestateSeq) as 출결상태  from tblAttendance a  where enrolmentseq = 1 and to\_char(a.attendancedate, 'yymmdd') = '220106'; | | | |

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| 요구사항번호 | C.03 | 작성일 | 2022/05/20 |
| 요구사항명 | 교육생 커뮤니티 관리 및 조회 | 작성자 | 정혜인 |
| DML | | | |
| --자신이 속한 커뮤니티 글 출력  /\*  카테고리(질문/잡담)/제목/작성자명/작성날짜/내용/답변여부/댓글수를 출력할 수 있어야 한다.  \*/  select "글번호", "카테고리명","작성자명","글내용", "답변여부","댓글수", "과정명" from vwcomunity  where "과정과목번호" = (select subjectscheduleseq from tblmember where memberinfoseq  = (select memberinfoseq from tblmemberinfo where id = 'dkdghvrhd')) ;  select \* from tblattendancestate;  --카테고리별로 출력  select "글번호", "카테고리명","작성자명","글내용", "답변여부","댓글수","과정명" from vwcomunity  where "과정과목번호" = (select subjectscheduleseq from tblmember where memberinfoseq  = (select memberinfoseq from tblmemberinfo where id = 'dkdghvrhd')) and "카테고리번호" =2;  --  --자기가 작성한 글 출력  select "글번호", "카테고리명","작성자명","글내용", "답변여부","댓글수","과정명" from vwcomunity  where "과정과목번호" = (select subjectscheduleseq from tblmember where memberinfoseq  = (select memberinfoseq from tblmemberinfo where id = 'dkdghvrhd'))  and "멤버번호" = ( select memberseq from tblmember where memberinfoseq  = (select memberinfoseq from tblmemberinfo where id = 'dkdghvrhd'));  --댓글출력  select  comunityseq as 글번호,  (select name from tblmemberinfo where memberinfoseq =  (select memberinfoseq from tblmember where memberseq = c.memberseq)) as 작성자명,  commentcontents as 글내용 from tblcomment c where comunityseq = 13;  --댓글 수정  update tblcomment set commentcontents = ('수정내용')  where memberseq =  (select memberseq from tblmember where memberinfoseq  = (select memberinfoseq from tblmemberinfo where id = 'dkdghvrhd')) and commentseq = 33;  --댓글 삭제 > 글번호 선택  delete tblcomment where memberseq = (select memberseq from tblmember where memberinfoseq  = (select memberinfoseq from tblmemberinfo where id = 'dkdghvrhd')) and commentseq = 33;  --글 수정  update tblcomunity set writedate = sysdate, contents = ('수정내용')  where memberseq =  (select memberseq from tblmember where memberinfoseq  = (select memberinfoseq from tblmemberinfo where id = 'dkdghvrhd')) and comunityseq = | | | |

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| 요구사항번호 | C.04 | 작성일 | 2022/05/20 |
| 요구사항명 | 교육생 과정평가 조회 | 작성자 | 정혜인 |
| DML | | | |
| --자신이 쓴 평가 삭제  delete from tblprocedurerate where procedurerate = fngetenrol('xklhqjwzvv');  --자신이 쓴 평가 수정  update tblprocedurerate set proceduredate =(sysdate), ratescore = 5, ratecontents = ('내용')  where enrolmentseq = fngetenrol('xklhqjwzvv');  --자신이 쓴 평가 조회  select proceduredate, ratescore, ratecontents from tblprocedurerate where enrolmentseq = fngetenrol('dkdghvrhd'); | | | |

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| 요구사항번호 | C.05 | 작성일 | 2022/05/20 |
| 요구사항명 | 교육생 보충학습 내역 조회 | 작성자 | 정혜인 |
| DML | | | |
| select "학생명","과정명", "과목명", "필기점수", "실기점수", "출결점수", "총점","강의실" from vwaddstudyst where "학생번호" = fnstudentseq('dkdghvrhd'); | | | |

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| 요구사항번호 | A.09-01 | 작성일 | 2022-05-20 |
| System | 커뮤니티 관리 및 조회 기능(조회) | 작성자 | 정병직 |
| DML | | | |
| **-- [관리자] 커뮤니티에서 조회/등록/수정/삭제를 할 수 있어야 한다.**  **-- [관리자] 커뮤니티 글 조회**  select  c.comunityseq as "글번호",  op.openingProcedureSeq "개설과정번호",  pl.procedurename,  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  left join tblEnrolment e  on e.enrolmentSeq = m.enrolmentSeq  left join tblOpeningProcedure op  on op.openingprocedureseq = e.openingprocedureseq  left join tblProcedureList pl  on pl.procedurelistseq = op.procedureList  order by c.comunityseq;  **-- [관리자] 댓글 조회**  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; | | | |

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| 요구사항번호 | A.09-02 | 작성일 | 2022-05-20 |
| System | 커뮤니티 관리 및 조회 기능(등록) | 작성자 | 정병직 |
| DML | | | |
| **-- [관리자] 커뮤니티 글 등록**  INSERT INTO tblcomunity VALUES (커뮤니티 글 번호, 작성자 번호, ‘작성날짜’, ‘글내용’, ‘답변여부’, 댓글수, 과목 스케줄 번호);    **-- [관리자] 댓글 작성**  INSERT INTO tblcomment VALUES (댓글 번호, 작성자 번호, 커뮤니티 글 번호, ‘댓글 내용’); | | | |

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| 요구사항번호 | A.09-03 | 작성일 | 2022-05-20 |
| System | 커뮤니티 관리 및 조회 기능(수정) | 작성자 | 정병직 |
| DML | | | |
| **-- [관리자] 커뮤니티 글 수정**  UPDATE tblcomunity SET writedate = 작성날짜, categoryseq = 커뮤니티 카테고리 번호, contents = 글 내용 where comunityseq = 커뮤니티 글 번호;    **-- [관리자] 댓글 수정**  UPDATE tblcomment SET commentcontents = ‘댓글 내용’ where commentseq = 커뮤니티 글 번호; | | | |

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| 요구사항번호 | A.09-04 | 작성일 | 2022-05-20 |
| System | 커뮤니티 관리 및 조회 기능(삭제) | 작성자 | 정병직 |
| DML | | | |
| **-- [관리자] 커뮤니티 글 삭제**  DELETE FROM tblcomment WHERE comunityseq = 커뮤니티 글 번호;  DELETE FROM tblcomunity WHERE comunityseq = 커뮤니티 글 번호;    **-- [관리자] 커뮤니티 댓글 삭제**  DELETE FROM tblcomment WHERE commentseq = 댓글 번호; | | | |

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| 요구사항번호 | A.10 | 작성일 | 2022-05-20 |
| System | 과목평가 조회 기능 | 작성자 | 정병직 |
| DML | | | |
| **-- [관리자] 특정 과목을 과목 번호로 선택하여 교육생 정보 확인**  select  s.studentseq "학생번호",  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; | | | |

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| 요구사항번호 | A.11 | 작성일 | 2022-05-20 |
| System | 보충학습 관리 및 조회 기능 | 작성자 | 정병직 |
| DML | | | |
| **-- [관리자] 보충학습 관리 및 조회**  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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| 요구사항번호 | B.01 | 작성일 | 2022-05-20 |
| System | 강의 스케줄 조회 | 작성자 | 정병직 |
| DML | | | |
| **-- [교사] 강의 스케줄 조회 (과정명, 과정기간, 과목명, 과목기간, 강의진행사항, 강의실, 교재명, 교육생 등록 인원)**  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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| 요구사항번호 | B.01-a | 작성일 | 2022-05-20 |
| System | 특정 과목 수강 교육생 정보 조회 | 작성자 | 정병직 |
| DML | | | |
| **-- [교사] 특정 과목을 과목 번호로 선택 시 교육생 정보 확인(과정명, 학생명, 전화번호, 등록일, 수료 or 중도탈락 여부)**  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; | | | |

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| 요구사항번호 | B02 | 작성일 | 2022-05-20 |
| 요구사항명 | [교사] 배점 입출력 | 작성자 | 서주예 |
| DML | | | |
| -- 과목 목록 출력 시 과정명, 과정기간, 강의실, 과목명, 과목기간, 교재명, 출결, 필기,실기 배점  select \* from vwpointsubject where "교사번호" = fnteacherSeq('eufhfjsjwjl') and "과목 끝" < sysdate;  -- 시험날짜 확인  select \* from vwtest where "교사번호" = fnteacherSeq('eufhfjsjwjl') and "과목명" = 'Spring';  -- 시험문제 확인  select \* from vwquestion where "교사번호" = fnteacherSeq('eufhfjsjwjl') and "개설과목" = 'Spring' and "문제번호" = 23;  -- 시험 등록  begin  procTestDate(23, ‘2022-05-19’, ‘실기’);  end; | | | |
| -- 배점 입력  begin  procPoint(40,40,20);  end | | | |

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| 요구사항번호 | B03 | 작성일 | 2022-05-20 |
| 요구사항명 | [교사] 성적 입출력 | 작성자 | 서주예 |
| DML | | | |
| -- 과목 목록 출력  -- 과목 목록 출력 시 과정명, 과정기간, 강의실, 과목명, 과목기간, 교재명, 출결, 필기, 실기 배점 등록여부  select \* from vwteacehrsubjectpoint where "교사번호" = fnteacherSeq('eufhfjsjwjl') and "과목 끝" < sysdate;  -- 선생님 3, 과목번호로 선택 시 교육생 정보 출력  select \* from vwscoreinput where "교사번호" = fnteacherSeq('eufhfjsjwjl') and "과목명" = 'Spring';  -- 성적입력  begin  porcScore(23, fnenrolmentseq(‘천혜현’), 90, 80, 100);  end | | | |
| 요구사항번호 | B04 | 작성일 | 2022-05-20 |
| 요구사항명 | [교사] 출결관리 및 출결 조회 | 작성자 | 서주예 |
| DML | | | |
| -- 전체보기  select \* from vwattendance where "교사 번호" = fnteacherSeq('eufhfjsjwjl');  -- 과정별보기  select \* from vwattendance where "과정명" ='스마트웹 웹애플리케이션 개발자 양성과정' and "교사 번호" = fnteacherSeq('eufhfjsjwjl');  -- 년/월/일로 조회하기 > 5월 4일  select \* from vwattendance where "과정명" ='스마트웹 웹애플리케이션 개발자 양성과정' and "날짜" = to\_date('2022-05-04', 'yyyy-mm-dd') and "교사 번호" = fnteacherSeq('eufhfjsjwjl');  -- 년/월/일로 조회하기 > 5월  select \* from vwattendance where "과정명" ='스마트웹 웹애플리케이션 개발자 양성과정' and substr("날짜", 4,2) = 05 and "교사 번호" = fnteacherSeq('eufhfjsjwjl');  --select \* from vwattendance where "과정명" ='스마트웹 웹애플리케이션 개발자 양성과정' and "날짜" between '2022-05-01' and '2022-05-31' and "교사 번호" = 3;  -- 년/월/일로 조회하기 > 22년  select \* from vwattendance where "과정명" ='스마트웹 웹애플리케이션 개발자 양성과정' and substr("날짜", 1,2) = 22 and "교사 번호" = fnteacherSeq('eufhfjsjwjl');  -- 특정 인원 -- 오림윤 학생  select \* from vwattendance where "과정명" ='스마트웹 웹애플리케이션 개발자 양성과정' and "교사 번호" = 3 and "학생명" = '오림윤'; | | | |

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| 요구사항번호 | B05 | 작성일 | 2022-05-20 |
| 요구사항명 | [교사] 기자재 조회 | 작성자 | 서주예 |
| DML | | | |
| -- 기자재 조회 기능  select \* from vwequipment;  -- 기자재명으로 검색  select \* from vwequipment where "기자재" like '%LG%'; --jdbc로 해야함  -- 카테고리별  select \* from vwequipment where "카테고리" = '키보드';  -- 사용가능한 기자재만 보기  select \* from vwequipment where "카테고리" = '키보드' and "사용가능여부" = '가능';  -- 사용위치별로 보기  select \* from vwequipment where "사용위치" = '1강의실' and "카테고리" = '키보드' and "사용가능여부" = '가능';  -- 수량확인하기  select "기자재", count(\*) as "수량" from vwequipment group by "기자재";  -- 기자재 상태 수정하기  begin  porcequipmentstate(1, ‘불가능’);  end | | | |

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| 요구사항번호 | B.06 | 작성일 | 2022-05-22 |
| 요구사항명 | 교사가 맡은 과정의 커뮤니티 출력 | 작성자 | 이지영 |
| DML | | | |
| select distinct  t.teacherseq as "교사번호",  comunityseq as "커뮤니티글번호",  op.openingProcedureSeq "개설과정번호",  pl.procedurename as "과정명",  categoryname as "카테고리",  contents as "게시글내용",  name as "작성자명",  writedate as "작성날짜",  answer as "답변여부",  (select count(\*)from tblComment where comunityseq = co.comunityseq) "댓글수"  from tblCommuCategory cm  inner join tblComunity co  on cm.categoryseq = co.categoryseq  inner join tblmember m  on co.memberseq = m.memberseq  inner join tblMemberInfo mb  on m.memberinfoseq=mb.memberinfoseq  inner join tblEnrolment e  on e.enrolmentSeq = m.enrolmentSeq  inner join tblOpeningProcedure op  on op.openingprocedureseq = e.openingprocedureseq  inner join tblProcedureList pl  on pl.procedurelistseq = op.procedureList  inner join tblSubjectschedule ss  on ss.openingprocedureseq =op.openingprocedureseq  inner join tblPossiblesubject po  on ss.possiblesubjectseq=po.possiblesubjectseq  inner join tblTeacher t  on t.teacherseq=po.teacherseq  order by co.comunityseq; | | | |

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| 요구사항번호 | B.06 | 작성일 | 2022-05-22 |
| 요구사항명 | 해당교사가 가르치는 과정 게시물과 답변해야하는글조회 | 작성자 | 이지영 |
| DML | | | |
| --해당교사가 가르치는 과정 게시물 모두 조회  select\*from Tcomucomu where "교사번호"= fnteacherSeq('eufhfjsjwjl');  --해당교사가 답변해야하는 글조회  select\*from Tcomucomu where 카테고리='질문' and 답변여부 ='N' and "교사번호"= fnteacherSeq('eufhfjsjwjl'); | | | |
| 요구사항번호 | B.06 | 작성일 | 2022-05-22 |
| 요구사항명 | 교사가 맡은 과정의 커뮤니티의 질문의 댓글 출력 | 작성자 | 이지영 |
| DML | | | |
| select distinct co.comunityseq as "커뮤니티글번호",  mb.name as "작성자",  cm.commentcontents as "댓글"  from tblCommuCategory cm  inner join tblComunity co  on cm.categoryseq = co.categoryseq  inner join tblmember m  on co.memberseq = m.memberseq  inner join tblMemberInfo mb  on m.memberinfoseq=mb.memberinfoseq  inner join tblComment cm  on cm.comunityseq=co.comunityseq; | | | |

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| 요구사항번호 | B.06 | 작성일 | 2022-05-22 |
| 요구사항명 | 교사가 맡은 과정의 커뮤니티의 질문의 댓글 조회 | 작성자 | 이지영 |
| DML | | | |
| select\*from vwCmselect where "커뮤니티글번호"=7; | | | |

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| 요구사항번호 | B.06 | 작성일 | 2022-05-22 |
| 요구사항명 | 교사가 맡은 과정의 커뮤니티의 질문에 대하여 교사가 답변한글을 확인하기 | 작성자 | 이지영 |
| DML | | | |
| select distinct  t.teacherseq as "교사번호",  co.comunityseq as "커뮤니티글번호",  mb.name as "작성자",  co.writedate as "작성날짜",  cm.commentcontents as "댓글",  co.answer as"답변여부"  from tblCommuCategory cm  inner join tblComunity co  on cm.categoryseq = co.categoryseq  inner join tblmember m  on co.memberseq = m.memberseq  inner join tblMemberInfo mb  on m.memberinfoseq=mb.memberinfoseq  inner join tblComment cm  on cm.comunityseq=co.comunityseq  inner join tblTeacher t  on t.memberinfoseq=mb.memberinfoseq  inner join tblComment cm  on cm.comunityseq = co.comunityseq; | | | |
| 요구사항번호 | B.07 | 작성일 | 2022-05-22 |
| 요구사항명 | 교사가 맡은 과정의 과목평가 출력 | 작성자 | 이지영 |
| DML | | | |
| select  t.teacherseq as"교사번호",  pl.procedurename as "개설과정명",  pr.ratescore as "평점",  pr.ratecontents as "평가내용"  from tblProcedureRate pr  inner join tblOpeningProcedure op  on pr.openingprocedureseq=op.openingprocedureseq  inner join tblProcedureList pl  on pl.procedurelistseq=op.procedurelist  inner join tblsubjectschedule sch  on sch.openingprocedureseq = op.openingprocedureseq  inner join tblpossiblesubject ps  on ps.possiblesubjectseq = sch.possiblesubjectseq  inner join tblteacher t  on ps.teacherseq = t.teacherseq  inner join tblmemberinfo mi  on mi.memberinfoseq = t.memberinfoseq; | | | |

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| 요구사항번호 | B.07 | 작성일 | 2022-05-22 |
| 요구사항명 | 교사가 맡은 과정의 과목평가 조회 | 작성자 | 이지영 |
| DML | | | |
| select\*from vwTerate where "교사번호"= fnteacherSeq('rhnjkwgajkl'); | | | |

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| 요구사항번호 | B.08 | 작성일 | 2022-05-22 |
| 요구사항명 | 교사가 맡은 과목의 보충학습을 하는 학생들을 출력 | 작성자 | 이지영 |
| DML | | | |
| select  distinct s.scoreseq,  tea.teacherseq as"교사번호",  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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| 요구사항번호 | B.08 | 작성일 | 2022-05-22 |
| 요구사항명 | 교사가 맡은 과목의 보충학습을 하는 학생들을 조회 | 작성자 | 이지영 |
| DML | | | |
| select\*from vwAddStudy where "교사번호"= fnteacherSeq('rhnjkwgajkl');    --실기점수가 30점에 못미치는 학생조회  select\*from vwAddStudy where "교사번호"= fnteacherSeq('rhnjkwgajkl') and "실기점수"<30; | | | |

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| 요구사항번호 | C.01 | 작성일 | 2022-05-22 |
| 요구사항명 | 교육생의개인정보와 과정세부정보를 출력 | 작성자 | 이지영 |
| DML | | | |
| select distinct  sr.studentseq as "학생번호",  me.name as "이름",  me.id as "아이디",  sr.ssn as "주민번호",  sr.tel as "전화번호",  pl.procedurename as "과정명",  op.procedurestart as "과정기간시작",  op.procedureend as "과정기간끝",  r.roomname as "강의실"  from  tblSubjectSchedule ss  inner join tblOpeningProcedure op  on ss.openingprocedureseq = op.openingprocedureseq  inner join tblEnrolment e  on e.openingprocedureseq = op.openingprocedureseq  inner join tblStudent sr  on sr.studentseq = e.studentseq  inner join tblMemberInfo me  on me.memberinfoseq = sr.memberinfoseq  inner join tblProcedureList pl  on pl.procedurelistseq = op.procedurelist  inner join tblRoom r  on r.roomseq = op.roomseq ; | | | |

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| 요구사항번호 | C.01 | 작성일 | 2022-05-22 |
| 요구사항명 | 교육생의개인정보와 과정세부정보를 조회 | 작성자 | 이지영 |
| DML | | | |
| select\*from vwStinfo where "학생번호"= fnStudentSeq('dkdghvrhd'); | | | |

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| 요구사항번호 | C.01 | 작성일 | 2022-05-22 |
| 요구사항명 | 교육생 자신의 성적을 출력 | 작성자 | 이지영 |
| DML | | | |
| select  distinct s.scoreseq,  sd.studentseq as "학생번호",  sb.subjectseq as"과목번호",  sb.subjectname as"과목명",  sch.subjectstart as"과목기간시작",  sch.subjectend as"과목기간끝",  bb.bookname as"교재명",  (select name from tblMemberInfo where memberinfoseq = (select memberinfoseq from tblTeacher where teacherseq = t.teacherseq)) as"교사명",  p.writtenpoint as"필기배점",  p.practicalpoint as"실기배점",  p.attendancepoint as"출결배점",  ws.writtenscore as"필기점수",  ps.practicalscore as"실기점수",  ads.attendancescore as"출결점수",  te.testdate as"시험날짜",  ty.typename as"유형이름",  q.question as"시험문제"  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 q  on te.testseq=q.testseq  inner join tblType ty  on ty.typeseq = te.typeseq  order by scoreseq; | | | |

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| 요구사항번호 | C.01 | 작성일 | 2022-05-22 |
| 요구사항명 | 교육생의개인정보와 과정세부정보를 조회 | 작성자 | 이지영 |
| DML | | | |
| --수료완료한 학생의 성적조회  select\*from vwStscinfo where "학생번호"= fnStudentSeq('dkdghvrhd');  --수료중인 학생의 성적조회  select\*from vwStscinfo where "학생번호"= fnStudentSeq('ipskhaxwfd'); | | | |