**데이터 쿼리문(ANSI-SQL)**

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| **요구사항** | C-02 | **작성일** | 2022-05-17 |
| **요구사항명** | 교사-내 강의 스케줄 조회 | **작성자** | 백재민 |
| **DML** | | | |
| -- 내 개설과정 강의 스케줄 조회  select  c.course\_seq as "강의번호",  n.course\_neme as "강의 과정명",  case when sysdate < c.c\_start\_date then '강의예정'  when sysdate between c.c\_start\_date and c.c\_end\_date then '강의중'  when sysdate > c.c\_end\_date then '강의종료' end as "강의상태"  from tblCourse c  inner join tblcoursename n  on c.cname\_seq = n.cname\_seq  where c.teacher\_seq =  (select teacher\_seq from tblteacher where t\_name = '최경하' and t\_password = 2532102) order by c.c\_end\_date desc;  -- 내 스케줄 내 개설과정번호 선택  select  distinct s.subname\_seq as "과목번호",  n.course\_neme as "과정명",  c.c\_start\_date as "과정시작일",  c.c\_end\_date as "과정종료일",  sj.subname as "과목명",  s.csstart\_date as "과목시작일",  s.csend\_date as "과목종료일",  r.room\_name "강의실명",  (select count(\*) from tblSugang where course\_seq = 25) as "수강 인원"  from tblCourse c  inner join tblCourseName n  on c.cname\_seq = n.cname\_seq  inner join tblCSub s  on c.course\_seq = s.course\_seq  inner join tblSubjectName sj  on s.subname\_seq = sj.subname\_seq  inner join tblRoom r  on c.room\_seq = r.room\_seq  inner join tblSubjectTxt st  on sj.subname\_seq = st.subname\_seq  where c.course\_seq = 25;  -- 과목에 따른 교재 출력 > 내 스케줄 강의선택 시 출력되어야함 but 중복이 너무 많아서 따로처리  select  distinct sn.subname\_seq as "과목번호",  sn.subname as "과목명",  tb.name as "교재명"  from tblSubjectName sn  inner join tblSubjectTxt st  on st.subname\_seq = sn.subname\_seq  inner join tblTextBook tb  on st.txtbook\_seq = tb.txtbook\_seq  order by sn.subname\_seq;  -- 내 스케줄 내 개설과정선택 과목 선택  select  m.m\_name "교육생 이름",  m.m\_tel "전화번호",  m.m\_registdate "등록일",  su.progress "수강상태"  from tblCSub cs  inner join tblCourse c  on cs.course\_seq = c.course\_seq  inner join tblSugang su  on c.course\_seq = su.course\_seq  inner join tblMember m  on su.member\_seq = m.member\_seq  where cs.subname\_seq = 9 and c.course\_seq = 25; | | | |

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| **요구사항** | C-03 | **작성일** | 2022-05-17 |
| **요구사항명** | 교사-배점 입출력 | **작성자** | 박채은 |
| **DML** | | | |
| -- C-03 교사 - 배점입출력  -- 교사 로그인  select \* from tblTeacher where t\_password = 2142021;  -- 배점 입출력 출력  -- 과목번호/과정명/과정시작일/과정종료일/강의실/과목명/과목시작일/과목종료일/교재명/출결/필기배점/실기배점  select  cs.csub\_seq as 과목번호,  c.c\_start\_date as 과정시작일,  c.c\_end\_date as 과정종료일,  r.room\_name as 강의실,  sn.subname as 과목명,  cs.csstart\_date as 과목시작일,  cs.csend\_date as 과목종료일,  sp.attend\_point as 출결배점,  sp.pilgi\_point as 필기배점,  sp.silgi\_point as 실기배점  from tblCourse c  inner join tblRoom r  on c.room\_seq = r.room\_seq  inner join tblCourseName cn  on c.cname\_seq = cn.cname\_seq  inner join tblCSub cs  on c.course\_seq = cs.course\_seq  inner join tblSubjectName sn  on cs.subname\_seq = sn.subname\_seq  left outer join tblSubtPoint sp  on cs.csub\_seq = sp.csub\_seq  where c.teacher\_seq = (select teacher\_seq from tblTeacher where t\_password = 2142021) and cs.csend\_date < sysdate and sysdate < c.c\_end\_date  order by cs.csstart\_date;  -- 교재명 출력  select  distinct  tb.name as 교재명,  sn.subname  from tblCourse c  inner join tblCSub cs  on c.course\_seq = cs.course\_seq  inner join tblSubjectName sn  on cs.subname\_seq = sn.subname\_seq  inner join tblSubjectTxt st  on sn.subname\_seq = st.subname\_seq  inner join tblTextBook tb  on st.txtbook\_seq = tb.txtbook\_seq;  -- 과목번호 선택  select  sp.attend\_point as 출결배점,  sp.pilgi\_point as 필기배점,  sp.silgi\_point as 실기배점,  td.test\_date as 시험날짜,  tn.test\_type as 유형,  tn.test as 시험문제  from tblCSub cs  left outer join tblSubtPoint sp  on cs.csub\_seq = sp.csub\_seq  inner join tblSubjectName sn  on cs.subname\_seq = sn.subname\_seq  left outer join tbltestdate td  on cs.csub\_seq = td.csub\_seq  left outer join tblTest t  on td.testnum\_seq = t.testnum\_seq  left outer join tblTestName tn  on t.testname\_seq = tn.testname\_seq  where cs.csub\_seq = 152;  -- 특정과목 선택 시 출결/필기/실기 배점 입력  -- !배점 100점 실패 시 안되는 프로시저 필요!  select \* from tblsubtpoint;  insert into tblSubtPoint (subpoint\_seq, attend\_point, pilgi\_point, silgi\_point, teacher\_seq, csub\_seq) values (37, 20, 30, 50, 3, 152);    -- 문제 등록하는 법  -- insert into tblTestName(testname\_seq, test, test\_type, subname\_seq) values (시험문제번호pk, 시험문제, 유형, 과목명번호fk);  -- insert into tblTest(testnum\_seq, teacher\_seq, testname\_seq) values(교사가정한시험문제번호pk, 교사번호fk, 시험문제번호fk);  -- insert into tblTestDate(testdate\_seq, test\_date, testnum\_seq, csub\_seq) values(시험날짜번호pk, 시험날짜, 교사가정한시험문제번호, 개설과정내과목번호);  -- 1. TestName 있는 문제 등록  -- testName에 있는 내용 > test > testDate에 연결  insert into tblTest(testnum\_seq, teacher\_seq, testname\_seq) values(73, 3, 5);  insert into tblTestDate(testdate\_seq, test\_date, testnum\_seq, csub\_seq) values(73, '2022-03-21', 73, 152);  -- 2. 새로운 시험문제 등록  insert into tblTestName(testname\_seq, test, test\_type, subname\_seq) values(77, 'Java실기문제 추가', '실기', 3);  insert into tblTest(testnum\_seq, teacher\_seq, testname\_seq) values(74, 3, 77);  insert into tblTestDate(testdate\_seq, test\_date, testnum\_seq, csub\_seq) values(74, '2022-03-22', 74, 152); | | | |

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| **요구사항** | C-04 | **작성일** | 2022-05-17 |
| **요구사항명** | 교사-성적 입출력 | **작성자** | 백재민 |
| **DML** | | | |
| -- 내 개설과정 강의종료 과목  select  cs.csub\_seq as "과목번호",  sj.subname as "과목명",  case  when cs.csend\_date < sysdate then '진행 종료'  end as "진행 상태"  from tblCSub cs  inner join tblCourse c  on cs.course\_seq = c.course\_seq  inner join tblSubjectname sj  on cs.subname\_seq = sj.subname\_seq  where cs.csend\_date < sysdate and c.teacher\_seq =  (select teacher\_seq from tblteacher where t\_name = '최경하' and t\_password = 2532102)  order by cs.csstart\_date asc;  -- 개설과목 선택  select  distinct cs.csub\_seq as "개설과목번호",  cn.course\_neme as "개설과정명",  c.c\_start\_date as "과정시작일",  c.c\_end\_date as "과정종료일",  r.room\_name as "강의실명",  sj.subname as "개설과목명",  cs.csstart\_date as "과목시작일",  cs.csend\_date as "과목종료일",  sp.attend\_point as "출결 배점",  sp.pilgi\_point as "필기 배점",  sp.silgi\_point as "실기 배점",  (case when s.silgi\_score is not null then 'Y' else 'N' end) as 성적등록여부  from tblCSub cs  left outer join tblCourse c  on cs.course\_seq = c.course\_seq  left outer join tblCourseName cn  on c.cname\_seq = cn.cname\_seq  left outer join tblRoom r  on c.room\_seq = r.room\_seq  left outer join tblSubjectName sj  on cs.subname\_seq = sj.subname\_seq  left outer join tblSubjectTxt st  on sj.subname\_seq = st.subname\_seq  left outer join tblTextBook tb  on st.txtbook\_seq = tb.txtbook\_seq  left outer join tblSugang su  on c.course\_seq = su.course\_seq  left outer join tblSubtPoint sp  on sp.csub\_seq = cs.csub\_seq  left outer join tblScore s  on cs.csub\_seq = s.csub\_seq  where cs.csub\_seq = 142 and c.teacher\_seq =  (select teacher\_seq from tblteacher where t\_name = '최경숙' and t\_password = 2532102);  -- 과목에 따른 교재 출력 > 내 스케줄 강의선택 시 출력되어야함 but 중복이 너무 많아서 따로처리 > 이미 완료  select  distinct sn.subname\_seq as "과목번호",  sn.subname as "과목명",  tb.name as "교재명"  from tblSubjectName sn  inner join tblSubjectTxt st  on st.subname\_seq = sn.subname\_seq  inner join tblTextBook tb  on st.txtbook\_seq = tb.txtbook\_seq  order by sn.subname\_seq;  -- 특정 과목 번호 선택  select  su.sugang\_seq as "수강생 번호",  m.m\_name as "수강생 이름",  m.m\_tel as "전화번호",  su.progress as "수강상태",  ss.stop\_date as "중도탈락일",  s.attend\_score as "출결점수",  s.pilgi\_score as "필기점수",  s.silgi\_score as "실기점수"  from tblMember m  inner join tblSugang su  on m.member\_seq = su.member\_seq  left outer join tblStustop ss  on su.sugang\_seq = ss.sugang\_seq  inner join tblCourse c  on su.course\_seq = c.course\_seq  inner join tblCsub cs  on c.course\_seq = cs.course\_seq  left outer join tblScore s  on cs.csub\_seq = s.csub\_seq  where cs.csub\_seq = 143  order by su.sugang\_seq;  -- 수강생 번호 선택 > 시험 점수 등록  insert into tblScore values ((select max(score\_seq)+1 from tblScore), 20, 30, 50, 1, (select sugang\_seq from tblSugang where sugang\_seq = 5));  select \* from tblScore; | | | |

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| **요구사항** | C-05 | **작성일** | 2022-05-17 |
| **요구사항명** | 교사-출결 관리 및 출결 조회 | **작성자** | 백재민 |
| **DML** | | | |
| -- 출결 관리 및 조회 내 개설과정  select  c.course\_seq as "강의번호",  n.course\_neme as "강의 과정명",  case  when sysdate < c.c\_start\_date then '강의예정'  when sysdate between c.c\_start\_date and c.c\_end\_date then '강의중'  when sysdate > c.c\_end\_date then '강의종료'  end as "강의상태"  from tblCourse c inner join tblcoursename n  on c.cname\_seq = n.cname\_seq where c.teacher\_seq =  (select teacher\_seq from tblteacher where t\_name = '최경숙' and t\_password = 2532102) order by c.c\_end\_date desc;  -- 특정 강의 선택 해당 강의 내 교육생 출결현황  -- Case 1.  select  su.sugang\_seq as "수강생 번호",  m.m\_name as "수강생 이름",  ad.attend\_date as "출석일",  ad.attendance\_type as "상태"  from tblSugang su  inner join tblAttendance ad  on su.sugang\_seq = ad.sugang\_seq  inner join tblMember m  on su.member\_seq = m.member\_seq  where su.course\_seq = 25  order by ad.attend\_date;  -- Case 2.  select distinct  s.sugang\_seq as "수강생번호",  m.m\_name "수강생 이름",  (select count(\*) from tblattendance where attendance\_type = '정상' and sugang\_seq = s.sugang\_seq) as 정상,  (select count(\*) from tblattendance where attendance\_type = '지각' and sugang\_seq = s.sugang\_seq) as 지각,  (select count(\*) from tblattendance where attendance\_type = '조퇴' and sugang\_seq = s.sugang\_seq) as 조퇴,  (select count(\*) from tblattendance where attendance\_type = '외출' and sugang\_seq = s.sugang\_seq) as 외출,  (select count(\*) from tblattendance where attendance\_type = '병가' and sugang\_seq = s.sugang\_seq) as 병가,  (select count(\*) from tblattendance where attendance\_type = '기타' and sugang\_seq = s.sugang\_seq) as 기타,  (select count(\*) from tblattendance where attendance\_type = '결석' and sugang\_seq = s.sugang\_seq) as 결석  from tblcourse c  inner join tblcoursename cn  on c.cname\_seq = cn.cname\_seq  inner join tblsugang s  on c.course\_seq = s.course\_seq  inner join tblmember m  on s.member\_seq = m.member\_seq  inner join tblattendance a  on s.sugang\_seq = a.sugang\_seq  where c.course\_seq = 25;  -- 년도별 출력  select  su.sugang\_seq as "수강생 번호",  m.m\_name as "수강생 이름",  to\_char(ad.attend\_date, 'YYYY-MM-DD') as "출석일",  ad.attendance\_type as "상태"  from tblSugang su  inner join tblAttendance ad  on su.sugang\_seq = ad.sugang\_seq  inner join tblMember m  on su.member\_seq = m.member\_seq  where su.course\_seq = 25 and ad.attend\_date like '22/04/01'  order by ad.attend\_date;  -- 월별 출력  select  su.sugang\_seq as "수강생 번호",  m.m\_name as "수강생 이름",  ad.attend\_date as "출석일",  ad.attendance\_type as "상태"  from tblSugang su  inner join tblAttendance ad  on su.sugang\_seq = ad.sugang\_seq  inner join tblMember m  on su.member\_seq = m.member\_seq  where su.course\_seq = 25 and ad.attend\_date like '22/03%'  order by ad.attend\_date;  -- 일별 출력  select  su.sugang\_seq as "수강생 번호",  m.m\_name as "수강생 이름",  ad.attend\_date as "출석일",  ad.attendance\_type as "상태"  from tblSugang su  inner join tblAttendance ad  on su.sugang\_seq = ad.sugang\_seq  inner join tblMember m  on su.member\_seq = m.member\_seq  where su.course\_seq = 25 and ad.attend\_date like '22/03/01%'  order by ad.attend\_date;  -- 특정 교육생 출결현황  select attend\_date as "출석일", attendance\_type as "상태" from tblAttendance where sugang\_seq = 184; | | | |

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| **요구사항** | C-06 | **작성일** | 2022-05-17 |
| **요구사항명** | 교사-추천 도서 관리 | **작성자** | 백재민 |
| **DML** | | | |
| -- 작성된 추천 도서 조회  select  tr.book\_seq as "추천도서번호",  tr.rec\_name as "추천도서명",  p.name as "출판사",  tr.book\_date as "등록일",  t.t\_name as "등록 교사",  sn.subname as "연관 과목명"  from tblTeachRec tr  inner join tblTeacher t  on tr.teacher\_seq = t.teacher\_seq  inner join tblSubjectName sn  on tr.subname\_seq = sn.subname\_seq  inner join tblPublisher p  on tr.publisher\_seq = p.publisher\_seq  order by tr.book\_seq;  -- 추천 도서 등록  -- 출판사가 존재하는지 확인  select name from tblPublisher where name = '제이펍';  -- 존재하지 않는다면 출판사 추가  insert into tblPublisher values ((select max(publisher\_seq) +1 from tblPublisher), '출판사명');  -- 출판사 유무 처리후 삽입  insert into tblTeachRec  values ((select max(book\_seq) + 1 from tblTeachRec),  (select teacher\_seq from tblteacher where t\_name = '최경하' and t\_password = 2532102), -- 교사번호 입력  '책제목', sysdate,  (select subname\_seq from tblsubjectname where subname = 'Java'), -- 과목번호 가져오기  (select publisher\_seq from tblpublisher where name = '제이펍')); -- 출판사 번호 가져오기  -- 추천도서 수정하기  update tblTeachRec set rec\_name = '변경할 값' where book\_seq = 1; -- 도서번호 1의 도서명 수정하기  update tblTeachRec set subname\_seq = (select subname\_seq from tblsubjectname where subname = '변경할 과목명') where book\_seq = 1; -- 연관과목 변경하기  update tblTeachRec set publisher\_seq = (select publisher\_seq from tblpublisher where name = '제이펍') where book\_seq = 1; -- 출판사 변경하기  -- 추천도서 삭제하기  delete tblTeachRec where book\_seq = 1; | | | |

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| **요구사항** | C-07 | **작성일** | 2022-05-17 |
| **요구사항명** | 교사-과목상담 답변 | **작성자** | 김은지 |
| **DML** | | | |
| -- 1. 강의중인 개설과정 중 질문이 존재하는 교육생 이름 조회  select  distinct    m.m\_name, -- "교육생이름"  cn.course\_neme, -- "개설과정명"  c.c\_start\_date, -- "개설과정시작일"  c.c\_end\_date -- "개설과정종료일"    from tblConsult q  inner join tblAnswer a  on q.consult\_seq = a.consult\_seq  inner join tblCsub cs  on q.csub\_seq = cs.csub\_seq  inner join tblsubjectname sn  on cs.subname\_seq = sn.subname\_seq  inner join tblCourse c  on cs.course\_seq = c.course\_seq  inner join tblcoursename cn  on c.cname\_seq = cn.cname\_seq  inner join tblTeacher t  on a.teacher\_seq = t.teacher\_seq  inner join tblSugang s  on q.sugang\_seq = s.sugang\_seq  inner join tblMember m  on s.member\_seq = m.member\_seq    where sysdate between c.c\_start\_date and c.c\_end\_date and t.teacher\_seq = ‘교사번호’ order by m.m\_name;  -- 날짜 1개만 조회 + 그 교사만 조회를 하면 된다.(시간 신경쓰기 : 부등호 > between 조금 더 느림)  -- 2. 교육생 이름으로 질문내역 조회  select  distinct    m.m\_name, -- "교육생이름"  sn.subname, -- "개설과목명"  q.consult\_txt, -- "상담내용"  a.answer\_txt -- "상담답변"    from tblConsult q  inner join tblAnswer a  on q.consult\_seq = a.consult\_seq  inner join tblCsub cs  on q.csub\_seq = cs.csub\_seq  inner join tblsubjectname sn  on cs.subname\_seq = sn.subname\_seq  inner join tblCourse c  on cs.course\_seq = c.course\_seq  inner join tblcoursename cn  on c.cname\_seq = cn.cname\_seq  inner join tblTeacher t  on a.teacher\_seq = t.teacher\_seq  inner join tblSugang s  on q.sugang\_seq = s.sugang\_seq  inner join tblMember m  on s.member\_seq = m.member\_seq    where sysdate between c.c\_start\_date and c.c\_end\_date and a.teacher\_seq = ‘교사번호’ and m.m\_name = ‘교육생 이름’;  -- 3. 답변입력  insert into tblAnswer (answer\_seq, answer\_txt, teacher\_seq, consult\_seq) values((select max(answer\_seq) + 1 from tblAnswer), ‘상담내용’, ‘교사번호’, ‘질문번호’);  -- 순서 바꾸기 하지 말기  -- 4. 답변 수정하기  update tblAnswer set answer\_txt = ‘새로운 상담내용’ where consult\_seq = ‘질문번호’;  -- 5. 답변 삭제하기  delete tblAnswer where answer\_seq = ‘답변번호; | | | |