**DB Object 스크립트(ANCI-SQL)**

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| 요구사항번호 | B-01 | 작성일 | 2025-02-06 |
| 요구사항명 | 관리자 정보 | 작성자 | 김우현 |
| DML | | | |
| /\* 관리자 계정 \*/  /\*추가\*/  insert into Admin(AdminSeq,AdminName,AdminTel,AdminPw) values (admin\_seq.nextval,'김우현','010-9193-3250',1493870);  /\*조회\*/  select AdminSeq as 관리자번호, AdminName as 관리자이름, AdminTel as 전화번호, AdminPw as 비밀번호 from Admin;  /\*수정\*/  UPDATE Admin SET AdminName = '김우현', AdminTel = '010-9193-3250', AdminPw = 1493870 WHERE AdminSeq = 1;  /\*삭제\*/  delete from Admin where AdminSeq = 1; | | | |

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| 요구사항번호 | B-02 | 작성일 | 2025-02-06 |
| 요구사항명 | 기초정보(과정) 관리 | 작성자 | 김우현 |
| DML | | | |
| /\* 과정명 관리 \*/  /\*추가\*/  insert into Course(courseSeq,courseName) values (course\_seq.NEXTVAL, q'[AWS와 Docker & Kubernetes를 활용한 Java Full-Stack 개발자 양성과정]');  /\*조회\*/  select courseSeq as 과정번호, courseName as 과정명 from Course;  /\*수정\*/  update Course set courseName = q'[AWS와 Docker & Kubernetes를 활용한 Java Full-Stack 개발자 양성과정]' where courseSeq = 1;  /\*삭제\*/  update Course set courseName = '없음' where courseSeq = 1;  /\* 과목명 관리 \*/  /\*추가\*/  insert into subject(subjectSeq,subjectName,subjectEsn) values (subject\_seq.NEXTVAL, q'[java]','필수');  /\*조회\*/  select subjectSeq as 과목번호, subjectName as 과목명, subjectEsn as 필수선택 from subject;  /\*수정\*/  update subject set subjectName = q'[java2]' , subjectEsn ='필수' where subjectSeq = 1;  /\*삭제\*/  update subject set subjectName = '없음' where subjectSeq = 1;  /\* 강의실명 관리 \*/  /\*추가\*/  insert into clsRoom(clsRoomSeq,clsRoomName,clsRoomPpl) values (clsRoom\_seq.NEXTVAL, q'[제 1 강의실]','30');  /\*조회\*/  SELECT distinct c.clsRoomName as 강의실명, c.clsRoomPpl as 강의실수용인원, p.processCount as 수강한인원 FROM clsRoom c INNER JOIN process p ON c.clsRoomSeq = p.clsRoomSeq;  /\*수정\*/  update clsRoom set clsRoomName = q'[변경할 강의실 번호]', clsRoomPpl ='강의실 수용인원' where clsRoomSeq = 1;  /\*삭제\*/  update clsRoom set clsRoomName = '없음' where clsRoomSeq = 1;  /\* 교재명 관리 \*/  /\*추가\*/  insert into book(bookSeq,bookName,bookPublisher,bookAuthor,bookYear) values (book\_Seq.NEXTVAL, q'[최신Java 프로그래밍]', q'[21세기사]', q'[한정란]', to\_date('2024','YYYY'));  /\*조회\*/  select bookSeq as 교재번호, bookName as 교재명, bookPublisher as 출판사 , bookAuthor as 저자 ,bookYear as 발행연도 from book;  /\*수정\*/  update book set bookName = q'[최신Java 프로그래밍]', bookPublisher = q'[21세기사]', bookAuthor = q'[한정란]', bookYear = to\_date('2024','YYYY') where bookSeq = 1;  /\*삭제\*/  UPDATE book set bookName = '없음' , bookPublisher = null, bookAuthor = null, bookYear = null WHERE bookSeq = 1; | | | |

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| 요구사항번호 | B-03 | 작성일 | 2025-02-06 |
| 요구사항명 | 교사 계정 관리 기능 | 작성자 | 채상혁 |
| DML | | | |
| /\* 관리자 계정 \*/  /\*추가\*/  --a. 교사명단 추가 (교사번호, 교사명, 비밀번호, 전화번호)  insert into Teacher(teacherSeq,teacherName,teacherPw,teacherTel)  values (teacher\_seq.nextval,'구하늘',1156493,'010-6789-0123');  --b. 교사 가능과목 추가 (교사가능과목번호, 교사번호, 과목번호)  insert into tSubject(tSubjectSeq,teacherSeq,subjectSeq)  values (tSubject\_Seq.NEXTVAL,1,1);  /\*조회\*/  --a. 전체조회  select  t.teacherName as 교사이름,  t.teacherPw as 비밀번호,  t.teacherTel as 전화번호,  s.subjectName as 강의가능과목  from teacher t  inner join tSubject ts on t.teacherSeq = ts.teacherSeq  inner join subject s on ts.subjectSeq = s.subjectSeq;  --b. 교사이름 조회  SELECT  t.teacherName as 교사이름,  s.subjectName as 과목명,  ps.prcSubjectSDate as 과목시작날짜,  ps.prcSubjectEDate as 과목종료날짜,  c.courseName as 과정명,  p.processSDate as 과정시작날짜,  p.processEDate as 과정종료날짜,  b.bookName as 교재명,  cr.clsRoomName as 강의실명,  CASE  WHEN ps.prcSubjectSDate > SYSDATE THEN '강의예정'  WHEN ps.prcSubjectSDate <= SYSDATE AND ps.prcSubjectEDate >= SYSDATE THEN '강의중'  ELSE '강의종료'  END AS 강의진행여부  FROM teacher t  inner join process p ON t.teacherSeq = p.teacherSeq  inner join prcSubject ps ON p.processSeq = ps.processSeq  inner join subject s ON ps.subjectSeq = s.subjectSeq  inner join Course c ON p.courseSeq = c.courseSeq  inner join clsRoom cr ON p.clsRoomSeq = cr.clsRoomSeq  inner join sbjectBook sb ON s.subjectSeq = sb.subjectSeq  inner join book b ON sb.bookSeq = b.bookSeq  WHERE t.teacherName = '구하늘';  /\*수정\*/  --이름  update teacher set teacherName = '구바람'  where teacherSeq = 1;  --비밀번호  update teacher set teacherPw = '1234567'  where teacherSeq = 1;  --전화번호  update teacher set teacherTel = '010-6789-0123'  where teacherSeq = 1;  /\*삭제\*/  UPDATE teacher  SET  teacherName = '퇴직교사',  teacherPw = NULL,  teacherTel = NULL  WHERE  teacherName = '구하늘'; | | | |

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| 요구사항번호 | B-04 | 작성일 | 2025-02-06 |
| 요구사항명 | 개설 과정 관리 | 작성자 | 채상혁 |
| DML | | | |
| /\*추가\*/  --과정명 등록 (과정번호, 과정명)  insert into Course(courseSeq,courseName)  values (course\_seq.NEXTVAL, q'[AWS와 Docker & Kubernetes를 활용한 Java Full-Stack 개발자 양성과정]');  --과정기간 등록 (개설과정번호, 과정번호, 강의실번호, 교사번호, 과정시작날짜, 과정종료날짜, 수강정원)  insert into process(processSeq,courseSeq,clsRoomSeq,teacherSeq, processSDate,processEDate,processCount)  values (process\_seq.NEXTVAL,3,6,6, to\_date('2024-07-03','YYYY-MM-DD'), to\_date('2025-01-03','YYYY-MM-DD'),26);  --강의실 등록 (강의실번호, 강의실명, 강의실인원)  insert into clsRoom(clsRoomSeq,clsRoomName,clsRoomPpl)  values (clsRoom\_seq.NEXTVAL, q'[제 1 강의실]','30');  /\*조회\*/  --전체조회  SELECT  c.courseName AS 과정명,  p.processSDate AS 과정시작날짜,  p.processEDate AS 과정종료날짜,  cr.clsRoomName AS 강의실명,  s.subjectName AS 과목명,  (SELECT COUNT(\*)  FROM studentCls sc  WHERE sc.processSeq = p.processSeq) AS 교육생등록인원  FROM process p  inner join Course c ON p.courseSeq = c.courseSeq  inner join clsRoom cr ON p.clsRoomSeq = cr.clsRoomSeq  inner join prcSubject ps ON p.processSeq = ps.processSeq  inner join subject s ON ps.subjectSeq = s.subjectSeq;    --개설과정번호로 조회  SELECT  c.courseName AS 과정명,  s.subjectName AS 과목명,  cr.clsRoomName AS 강의실명,  ps.prcSubjectSDate AS 과목시작날짜,  ps.prcSubjectEDate AS 과목종료날짜,  sc.studentSeq AS 교육생번호,  st.studentName AS 이름  FROM process p  inner join Course c ON p.courseSeq = c.courseSeq  inner join prcSubject ps ON p.processSeq = ps.processSeq  inner join subject s ON ps.subjectSeq = s.subjectSeq  inner join clsRoom cr ON p.clsRoomSeq = cr.clsRoomSeq  inner join studentCls sc ON p.processSeq = sc.processSeq  inner join student st ON sc.studentSeq = st.studentSeq  WHERE p.processSeq = 2;  /\*수정\*/  --과정번호 수정  update process set courseSeq = 3 where processSeq = 2;  --강의실번호 수정  update process set clsRoomSeq = 6 where processSeq = 2;  --교사번호 수정  update process set teacherSeq = 6 where processSeq = 2;  --과정시작날짜 수정  update process set processSDate = to\_date('2024-07-03','YYYY-MM-DD') where processSeq = 2;  --과정종료날짜 수정  update process set processEDate = to\_date('2025-01-03','YYYY-MM-DD') where processSeq = 2;  --수강정원 수정  update process set processCount = 26 where processSeq = 2;    /\*삭제\*/  UPDATE Course SET courseName = '삭제된과정' WHERE courseSeq = 2; | | | |

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| 요구사항번호 | B-05 | 작성일 | 2025-02-06 |
| 요구사항명 | 개설 과목 관리 기능 | 작성자 | 김우현 |
| DML | | | |
| /\* 개설과목 추가 \*/  /\*추가\*/  insert into prcSubject(prcSubjectSeq,processSeq,subjectSeq,prcSubjectSDate,prcSubjectEDate)  values (prcSubject\_Seq.NEXTVAL,1,1, to\_date('24/08/07','YY-MM-DD'), to\_date('24/09/11','YY-MM-DD'));  insert into subject(subjectSeq,subjectName,subjectEsn)  values (subject\_seq.NEXTVAL, q'[java]','필수');  insert into tSubject(tSubjectSeq,teacherSeq,subjectSeq)  values (tSubject\_Seq.NEXTVAL,1,1);  insert into sbjectBook(sbjectBookSeq,subjectSeq,bookSeq)  values (sbjectBook\_Seq.NEXTVAL,1,1);  insert into book(bookSeq,bookName,bookPublisher,bookAuthor,bookYear)  values (book\_Seq.NEXTVAL, q'[최신Java 프로그래밍]', q'[21세기사]', q'[한정란]', to\_date('2024','YYYY'));  /\*조회\*/  SELECT  p.processSeq as 개설과정번호,  p.prcSubjectSeq as 개설과정과목번호,  p.subjectSeq as 과목번호,  s.subjectName as 과목명,  p.prcSubjectSDate as 과목시작날짜,  p.prcSubjectEDate as 과목종료날짜,  t.teacherName as 교사명,  b.bookName as 교재명  FROM  prcSubject p  INNER JOIN  subject s ON p.subjectSeq = s.subjectSeq  INNER JOIN  process pr ON p.processSeq = pr.processSeq  INNER JOIN  teacher t ON pr.teacherSeq = t.teacherSeq  INNER JOIN  sbjectBook sb ON s.subjectSeq = sb.subjectSeq  INNER JOIN  book B ON sb.bookSeq = b.bookSeq;      /\*수정\*/  update subject  set subjectName = q'[최신Java 프로그래밍]'  , subjectEsn = q'[21세기사]'  where subjectSeq = 1;  /\*삭제\*/  UPDATE subject  set subjectName = '없음'  , subjectEsn = '없음'  WHERE subjectSeq = 1; | | | |

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| 요구사항번호 | B-06 | 작성일 | 2025-02-06 |
| 요구사항명 | 교육생 관리 기능 | 작성자 | 김우현 |
| DML | | | |
| /\*교육생 정보 등록\*/  insert into Student(studentSeq,studentName,studentPw,studentTel,studentDate)  values (ststatus\_seq1.nextval,'이영희',2345678,'010-2345-6789','2024-06-03');  /\*교육생 정보 출력\*/  select studentName as 이름, studentPw as 주민번호, studentTel as 전화번호, studentDate as 등록일  from Student;  /\* 특정 교육생 선택 시 \*/  select  st.studentname as 이름,  c.coursename as 과정명,  pr.processSDate as 과정시작날짜,  pr.processEDate as 과정종료날짜,  clR.clsroomname as 강의실,  CASE  WHEN stS.Status IS NULL THEN '수료중'  ELSE stS.Status  END AS 수료여부,  stS.stStatusDate as 날짜  from Student st  INNER JOIN  studentCls stcl ON st.studentSeq = stcl.studentSeq  INNER JOIN  process pr ON stcl.processSeq = pr.processSeq  INNER JOIN  Course c ON pr.courseSeq = c.courseSeq  INNER JOIN  clsRoom clR ON pr.clsRoomSeq = clR.clsRoomSeq  LEFT JOIN  stStatus stS ON st.studentSeq = stS.studentSeq  where st.studentSeq = 1;  /\* 검색 기능 \*/  select studentName as 이름, studentPw as 주민번호, studentTel as 전화번호, studentDate as 등록일  from student  where studentName = '정수현';  select studentName as 이름, studentPw as 주민번호, studentTel as 전화번호, studentDate as 등록일  from student  where studentPw = 1234560;  select studentName as 이름, studentPw as 주민번호, studentTel as 전화번호, studentDate as 등록일  from student  where studentTel = '010-5678-9012';  /\* 교육생의 정보 수정 \*/  update student  set studentName = '김우현'  , studentPw ='1520316'  , studentTel ='010-4983-9012'  , studentDate ='2025-02-04'  where studentSeq = 1;  /\* 교육생의 정보 삭제 \*/  UPDATE student  set studentName = null  , studentPw =null  , studentTel =null  , studentDate =null  WHERE studentSeq = 1;  /\* 수료 및 중도 탈락 처리 \*/  update stStatus  set status = '중도탈락'  ,stStatusDate = '2025-02-04'  where stStatus.studentSeq = 1; | | | |

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| 요구사항번호 | B-07 | 작성일 | 2025-02-06 |
| 요구사항명 | 시험 관리 및 성적 조회 가능 | 작성자 | 채상혁 |
| DML | | | |
| /\* 시험관리, 성적조회 \*/  /\* 성적 등록 (과목성적번호, 교육생번호, 과목번호, 필기점수, 실기점수, 출석점수, 총점수) \*/  insert into score(scoreSeq,studentSeq,subjectSeq,writingScore,realScore, attendanceScore,totalScore)  values (score\_seq.nextval,27,1,0,72, 20,92);  /\* 개설과정번호를 조회하여 시험문제 확인 \*/  SELECT  c.courseName AS 과정명,  s.subjectName AS 과목명,  t.testType AS 시험종류,  t.testContext AS 시험문제,  t.testDate AS 날짜  FROM process p  inner join Course c ON p.courseSeq = c.courseSeq  inner join prcSubject ps ON p.processSeq = ps.processSeq  inner join subject s ON ps.subjectSeq = s.subjectSeq  inner join test t ON s.subjectSeq = t.subjectSeq  WHERE  p.processSeq = 2  AND t.teacherSeq = p.teacherSeq  AND t.testDate < p.processEDate;    /\* 과목번호를 조회하여 성적정보 확인 \*/  SELECT  c.courseName AS 과정명,  p.processSDate AS 과정시작날짜,  p.processEDate AS 과정종료날짜,  cr.clsRoomName AS 강의실명,  s.subjectName AS 과목명,  t.teacherName AS 교사명,  b.bookName AS 교재명,  st.studentName AS 학생이름,  st.studentPw AS 주민번호뒷자리,  sc.writingScore AS 필기점수,  sc.realScore AS 실기점수  FROM process p  inner join Course c ON p.courseSeq = c.courseSeq  inner join clsRoom cr ON p.clsRoomSeq = cr.clsRoomSeq  inner join prcSubject ps ON p.processSeq = ps.processSeq  inner join subject s ON ps.subjectSeq = s.subjectSeq  inner join sbjectBook sb ON s.subjectSeq = sb.subjectSeq  inner join book b ON sb.bookSeq = b.bookSeq  inner join teacher t ON p.teacherSeq = t.teacherSeq  inner join studentCls sc ON p.processSeq = sc.processSeq  inner join student st ON sc.studentSeq = st.studentSeq  inner join score sc ON st.studentSeq = sc.studentSeq AND s.subjectSeq = sc.subjectSeq  WHERE  s.subjectSeq = 1;    /\* 교육생 이름을 조회하여 성적정보 확인 \*/  SELECT  st.studentName AS 이름,  st.studentPw AS 주민번호뒷자리,  c.courseName AS 과정명,  p.processSDate AS 과정시작날짜,  p.processEDate AS 과정종료날짜,  cr.clsRoomName AS 강의실명,  s.subjectName AS 과목명,  ps.prcSubjectSDate AS 과목시작날짜,  ps.prcSubjectEDate AS 과목종료날짜,  t.teacherName AS 교사명,  sc.attendanceScore AS 출석점수,  sc.writingScore AS 필기점수,  sc.realScore AS 실기점수  FROM student st  inner join studentCls scs ON st.studentSeq = scs.studentSeq  inner join process p ON scs.processSeq = p.processSeq  inner join Course c ON p.courseSeq = c.courseSeq  inner join clsRoom cr ON p.clsRoomSeq = cr.clsRoomSeq  inner join prcSubject ps ON p.processSeq = ps.processSeq  inner join subject s ON ps.subjectSeq = s.subjectSeq  inner join sbjectBook sb ON s.subjectSeq = sb.subjectSeq  inner join book b ON sb.bookSeq = b.bookSeq  inner join teacher t ON p.teacherSeq = t.teacherSeq  inner join score sc ON st.studentSeq = sc.studentSeq AND s.subjectSeq = sc.subjectSeq  WHERE  st.studentName = '구하늘';  /\*수정\*/  --과목번호 수정  update score set subjectSeq = 1  where studentSeq = 1;  --필기점수 수정  update score set writingScore = 0  where studentSeq = 1;  --실기점수 수정  update score set realScore = 72  where studentSeq = 1;  --출석점수 수정  update score set attendanceScore = 20  where studentSeq = 1;  --총점수 수정  update score set totalScore = 92  where studentSeq = 1; | | | |

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| 요구사항번호 | B-08 | 작성일 | 2025-02-06 |
| 요구사항명 | 출결 관리 및 출결 조회 기능 | 작성자 | 김우현 |
| DML | | | |
| /\*추가\*/  INSERT INTO attendance  VALUES (attendance\_seq.nextval, 1, TO\_DATE('2024-07-03', 'YYYY-MM-DD'), TO\_DATE('09:00', 'HH24:MI'), TO\_DATE('18:00', 'HH24:MI'), '정상');  /\*조회\*/  select  c.courseName as 과정번호,  st.studentName as 이름,  at.attendanceDate as 날짜,  at.attendanceST as 상태  from attendance at  INNER JOIN  student st ON st.studentSeq = at.studentSeq  INNER JOIN  studentCls stcls ON st.studentSeq = stcls.studentSeq  INNER JOIN  process pr ON stcls.processSeq = pr.processSeq  INNER JOIN  Course c ON pr.courseSeq = c.courseseq  where stcls.processSeq = 1; | | | |
| 요구사항번호 | C-01 | 작성일 | 2025-02-06 |
| 요구사항명 | 교사계정 | 작성자 | 서희원 |
| DML | | | |
| /\* 로그인 \*/  select \* from teacher where teacherName = '구하늘' and teacherPw = 1156493; | | | |

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| 요구사항번호 | C-02 | 작성일 | 2025-02-06 |
| 요구사항명 | 강의 스케줄 | 작성자 | 서희원 |
| DML | | | |
| --a. 자신의 강의스케줄 조회  SELECT  t.teacherName as 교사이름,  s.subjectName as 과목명,  to\_char(ps.prcSubjectSDate, 'yyyy-dd-mm') as 과목시작날짜,  to\_char(ps.prcSubjectEDate, 'yyyy-dd-mm') as 과목종료날짜,  c.courseName as 과정명,  to\_char(p.processSDate, 'yyyy-dd-mm') as 과정시작날짜,  to\_char(p.processEDate, 'yyyy-dd-mm') as 과정종료날짜,  b.bookName as 교재명,  cr.clsRoomName as 강의실명,  CASE  WHEN ps.prcSubjectSDate > SYSDATE THEN '강의예정'  WHEN ps.prcSubjectSDate <= SYSDATE AND ps.prcSubjectEDate >= SYSDATE THEN '강의중'  ELSE '강의종료'  END AS 강의진행여부,  processCount as 수강인원  FROM teacher t  JOIN process p ON t.teacherSeq = p.teacherSeq  JOIN prcSubject ps ON p.processSeq = ps.processSeq  JOIN subject s ON ps.subjectSeq = s.subjectSeq  JOIN Course c ON p.courseSeq = c.courseSeq  JOIN clsRoom cr ON p.clsRoomSeq = cr.clsRoomSeq  JOIN sbjectBook sb ON s.subjectSeq = sb.subjectSeq  JOIN book b ON sb.bookSeq = b.bookSeq  WHERE t.teacherName = '구하늘'  order by 과정시작날짜;  -- b. 특정 강사의 진행중인 강의 듣는 학생명단 조회(수료 또는 중도탈락)  select s.studentSeq as 학생번호, s.studentName as 학생명, s.studentTel as 전화번호, s.studentDate as 등록일, st.status as 학생상태  from prcSubject ps  inner join scoreAllot sa on ps.prcSubjectSeq = sa.prcSubjectSeq  inner join teacher t on t.teacherSeq = sa.teacherSeq  inner join subject s on s.subjectSeq = ps.subjectSeq  inner join process p on p.processSeq = ps.processSeq  inner join studentCls sc on sc.processSeq = p.processSeq  inner join student s on s.studentSeq = sc.studentSeq  inner join stStatus st on st.studentSeq = s.studentSeq  where ps.prcSubjectEDate > sysdate and ps.prcSubjectSDate <= sysdate and t.teacherSeq = 1 and p.processSeq = 1; | | | |

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| 요구사항번호 | C-03 | 작성일 | 2025-02-06 |
| 요구사항명 | 배점 입출력 | 작성자 | 김우현 |
| DML | | | |
| /\*추가\*/  --1  insert into scoreAllot(scoreAllotSeq,prcSubjectSeq,teacherSeq,attendAllot,writingAllot,realAllot)  values (scoreAllot\_Seq.NEXTVAL,1,1,20,0,80);  --2  insert into test(testSeq,subjectSeq,teacherSeq,testType,testContext,testDate)  values (test\_Seq.NEXTVAL,1,1,'실기',q'[두 개의 정수 배열이 주어졌을 때, 두 배열의 교집합을 찾는 프로그램을 작성하세요. 단, 교집합의 원소는 중복되지 않으며 정렬된 상태로 출력해야 합니다.]'  , to\_date('24/09/04', 'yy-mm-dd'));  /\*조회\*/  --1  select  s.subjectName as 과목명,  scA.attendAllot as 출결배점,  scA.writingAllot as 필기배점,  scA.realAllot as 실기배점,  t.teachername as 교사명  from scoreAllot scA  INNER JOIN teacher t ON t.teacherSeq = scA.teacherSeq  INNER JOIN prcSubject ps ON scA.prcSubjectSeq = ps.prcSubjectSeq  INNER JOIN subject s ON ps.subjectSeq = s.subjectSeq;  --4  SELECT distinct  s.subjectSeq AS 과목번호,  c.courseName AS 과정명,  p.processSDate AS 과정시작날짜,  p.processEDate AS 과정종료날짜,  r.clsRoomName AS 강의실명,  s.subjectName AS 과목명,  ps.prcSubjectSDate AS 과목시작날짜,  ps.prcSubjectEDate AS 과목종료날짜,  b.bookName AS 교재명,  st.studentName AS 이름,  sa.attendAllot AS 출석배점,  sa.writingAllot AS 필기배점,  sa.realAllot AS 실기배점    FROM  teacher t  INNER JOIN  scoreAllot sa ON t.teacherSeq = sa.teacherSeq  INNER JOIN  prcSubject ps ON sa.prcSubjectSeq = ps.prcSubjectSeq  INNER JOIN  process p ON ps.processSeq = p.processSeq  INNER JOIN  Course c ON p.courseSeq = c.courseSeq  INNER JOIN  subject s ON ps.subjectSeq = s.subjectSeq  INNER JOIN  clsRoom r ON p.clsRoomSeq = r.clsRoomSeq  INNER JOIN  studentCls sc ON p.processSeq = sc.processSeq  INNER JOIN  student st ON sc.studentSeq = st.studentSeq  INNER JOIN  sbjectBook sb ON s.subjectSeq = sb.subjectSeq  INNER JOIN  book b ON sb.bookSeq = b.bookSeq    LEFT JOIN  score sc2 ON st.studentSeq = sc2.studentSeq AND s.subjectSeq = sc2.subjectSeq  WHERE  t.teacherSeq = 5;  AND ps.prcSubjectEDate <= SYSDATE  AND p.processSDate <= ps.prcSubjectSDate  AND p.processEDate >= ps.prcSubjectEDate;  select t.teacherName, sa.prcSubjectSeq  from scoreAllot sa  join teacher t on sa.teacherSeq = t.teacherseq  where t.teacherSeq = 4;  /\*수정\*/  --1  UPDATE scoreAllot  set prcSubjectSeq = 1  , teacherSeq = 1  , attendAllot =20  , writingAllot =0  , realAllot=80  WHERE scoreAllotSeq = 1;  /\*삭제\*/  --1  UPDATE scoreAllot  set prcSubjectSeq = 0  , teacherSeq = 0  , attendAllot =null  , writingAllot =null  , realAllot=null  WHERE scoreAllotSeq = 1; | | | |

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| 요구사항번호 | C-04 | 작성일 | 2025-02-06 |
| 요구사항명 | 성적 관리 | 작성자 | 채상혁 |
| DML | | | |
| /\*추가\*/  --성적 등록 (과목성적번호, 교육생번호, 과목번호, 필기점수, 실기점수, 출석점수, 총점수)  insert into score(scoreSeq,studentSeq,subjectSeq,writingScore,realScore, attendanceScore,totalScore) values (score\_seq.nextval,27,1,0,72, 20,92);    /\*조회\*/  --교사 이름을 입력하여 강의를 마친 과목 조회  SELECT  s.subjectSeq AS 과목번호,  c.courseName AS 과정명,  p.processSDate AS 과정시작날짜,  p.processEDate AS 과정종료날짜,  cr.clsRoomName AS 강의실명,  s.subjectName AS 과목명,  ps.prcSubjectSDate AS 과목시작날짜,  ps.prcSubjectEDate AS 과목종료날짜,  b.bookName AS 교재명,  st.studentName AS 이름,  sa.attendAllot AS 출석배점,  sa.writingAllot AS 필기배점,  sa.realAllot AS 실기배점,  CASE  WHEN sc.studentSeq IS NOT NULL THEN '등록'  ELSE '미등록'  END AS 성적등록여부  FROM teacher t  inner join process p ON t.teacherSeq = p.teacherSeq  inner join Course c ON p.courseSeq = c.courseSeq  inner join clsRoom cr ON p.clsRoomSeq = cr.clsRoomSeq  inner join prcSubject ps ON p.processSeq = ps.processSeq  inner join subject s ON ps.subjectSeq = s.subjectSeq  inner join sbjectBook sb ON s.subjectSeq = sb.subjectSeq  inner join book b ON sb.bookSeq = b.bookSeq  inner join studentCls scs ON p.processSeq = scs.processSeq  inner join student st ON scs.studentSeq = st.studentSeq  left join score sc ON st.studentSeq = sc.studentSeq AND s.subjectSeq = sc.subjectSeq  inner join scoreAllot sa ON ps.prcSubjectSeq = sa.prcSubjectSeq  WHERE  t.teacherName = '구하늘'  AND ps.prcSubjectEDate <= SYSDATE  AND p.processSDate <= ps.prcSubjectSDate  AND p.processEDate >= ps.prcSubjectEDate;    --과목을 조회하여 교육생 정보 출력  SELECT  st.studentName AS 이름,  st.studentTel AS 전화번호,  CASE  WHEN ss.status = '수료' OR ss.status IS NULL THEN '수료'  WHEN ss.stStatusDate >= p.processSDate AND ss.stStatusDate <= p.processEDate THEN '중도탈락'  WHEN SYSDATE <= p.processSDate THEN '수강예정'  WHEN SYSDATE >= p.processSDate AND SYSDATE <= p.processEDate THEN '수강중'  ELSE '수료'  END AS 교육생상태,  sc.attendanceScore AS 출석점수,  sc.writingScore AS 필기점수,  sc.realScore AS 실기점수  FROM student st  inner join studentCls scs ON st.studentSeq = scs.studentSeq  inner join process p ON scs.processSeq = p.processSeq  inner join prcSubject ps ON p.processSeq = ps.processSeq  inner join subject s ON ps.subjectSeq = s.subjectSeq  left join stStatus ss ON st.studentSeq = ss.studentSeq  inner join score sc ON st.studentSeq = sc.studentSeq AND s.subjectSeq = sc.subjectSeq  WHERE  s.subjectSeq = 41  AND p.processSDate <= ps.prcSubjectSDate  AND p.processEDate >= ps.prcSubjectEDate; | | | |

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| 요구사항번호 | D-01 | 작성일 | 2025-02-06 |
| 요구사항명 | 교육생 로그인 | 작성자 | 박세원 |
| DML | | | |
| /\* D-01 교육생 로그인 기능 \*/  /\* 조회 \*/  select  s.studentname as "학생 이름",  s. studentpw as "비밀번호",  s.studenttel as "학생의 전화번호",  s.studentdate as "학생의 등록일",  c.coursename as "과정명",  p.processsdate as "과정 시작일",  p.processedate as "과정 종료일",  cr.clsroomname as "강의실"  from student s  inner join studentcls sc  on s.studentseq = sc.studentseq  inner join process p  on sc.processseq = p.processseq  inner join course c  on c.courseseq = p.courseseq  inner join clsroom cr  on cr.clsroomseq = p.clsroomseq  where s.studentseq=1; | | | |

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| 요구사항번호 | D-02 | 작성일 | 2025-02-06 |
| 요구사항명 | 교육생 개인성적정보 확인 | 작성자 | 박세원 |
| DML | | | |
| /\* 교육생 개인성적정보 확인 \*/  select distinct  pc.subjectseq as "과목 번호",  s.subjectname as "과목 이름",  pc.prcsubjectsdate as "과목 시작 날짜",  pc.prcsubjectedate as "과목 종료 날짜",  b.bookname as "교재명",  t.teachername as "교사명",  sa.attendallot as "출석 배점" ,  sa.writingallot as "필기 배점" ,  sa.realallot as "실기 배점" ,  score.attendancescore as "출석 점수",  score.writingscore as "필기 점수",  score.realscore as "실기 점수",  score.totalscore as "총 점수",  test.testtype as "시험 종류",  test.testdate as "시험 날짜",  test.testcontext as "시험 문제"  from prcsubject pc  inner join process p  on p.processseq = pc.processseq  inner join subject s  on s.subjectseq = pc.subjectseq  inner join sbjectBook sb  on sb.subjectseq = pc.subjectseq  inner join book b  on b.bookseq = sb.bookseq  inner join teacher t  on t.teacherseq = p.teacherseq  inner join scoreallot sa  on sa.prcsubjectseq = pc.prcsubjectseq  inner join test  on test.subjectseq = pc.subjectseq  inner join studentcls scl  on scl.processseq = p.processseq  inner join score  on scl.studentseq=score.studentseq  where t.teacherseq=1 and p.processseq=2 and scl.studentseq = 27  order by pc.prcsubjectsdate; | | | |

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| 요구사항번호 | D-03 | 작성일 | 2025-02-06 |
| 요구사항명 | 교육생 출결 | 작성자 | 박세원 |
| DML | | | |
| /\* D-03 교육생 출결관리 기능 \*/  /\* 1번 학생의 등원 추가 \*/  INSERT INTO attendance  VALUES (  attendance\_seq.nextval,  1, --학생등원  1, --교육과정  TRUNC(SYSDATE), -- 날짜 (시간 00:00:00 초기화)  SYSDATE, -- 현재 시간으로 출근 기록  NULL, -- 퇴근 시간은 아직 없음  '출석'  );  /\* 수업종료 \*/  UPDATE attendance  SET attendanceetime = SYSDATE, -- 현재 시간으로 퇴근 기록  attendancest = '정상' -- 상태 변경  WHERE studentseq = 1  AND attendancedate = TRUNC(SYSDATE) -- 오늘 날짜의 출석 기록만 수정  AND attendanceetime IS NULL; -- 아직 퇴근 기록이 없는 경우  /\* 오늘의 출결 상태 보기 \*/  create or replace view vwTodayAttendance  as  select  attendancedate as "오늘 날짜",  TO\_char(attendancestime, 'HH24:MI') as "등원 시간",  to\_char(attendanceetime, 'HH24:MI') as "하원 시간"  from attendance where attendancedate=to\_char(SYSDATE) AND PROCESSSEQ=1;  select \* from vwTodayAttendance; | | | |

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| 요구사항번호 | D-04 | 작성일 | 2025-02-06 |
| 요구사항명 | 교육생 출결 조회 | 작성자 | 박세원 |
| DML | | | |
| /\* 다닌날 전체 조회 \*/  create or replace view vwTotalDate  as  select  to\_date('2024-07-03', 'yyyy-mm-dd') + level - 1 as regdate  from dual  connect by level <= (to\_date('2025-01-03', 'yyyy-mm-dd')  - to\_date('2024-07-03', 'yyyy-mm-dd') + 1);  select  v.regdate as "날짜",  case  when to\_char(v.regdate, 'd') = '1' then '일요일'  when to\_char(v.regdate, 'd') = '7' then '토요일'  when h.holidayseq is not null then h.holidayname  when h.holidayseq is null and t.attendanceseq is null then '결석'  else t.attendancest  end as "상태"  from vwTotalDate v  left outer join attendance t  on to\_char(v.regdate, 'yyyy-mm-dd') = to\_char(t.attendancedate, 'yyyy-mm-dd')  left outer join holiday h  on to\_char(v.regdate, 'yyyy-mm-dd') = to\_char(h.holidaydate, 'yyyy-mm-dd')  order by v.regdate asc;    /\*7월 조회\*/  create or replace view vwMonth  as  select  to\_date('2024-07-03', 'yyyy-mm-dd') + level - 1 as regdate  from dual  connect by level <= (to\_date('2024-07-31', 'yyyy-mm-dd')  - to\_date('2024-07-03', 'yyyy-mm-dd') + 1);  select  v.regdate as "날짜",  case  when to\_char(v.regdate, 'd') = '1' then '일요일'  when to\_char(v.regdate, 'd') = '7' then '토요일'  when h.holidayseq is not null then h.holidayname  when h.holidayseq is null and t.attendanceseq is null then '결석'  else t.attendancest  end as "상태"  from vwMonth v  left outer join attendance t  on to\_char(v.regdate, 'yyyy-mm-dd') = to\_char(t.attendancedate, 'yyyy-mm-dd')  left outer join holiday h  on to\_char(v.regdate, 'yyyy-mm-dd') = to\_char(h.holidaydate, 'yyyy-mm-dd')  order by v.regdate asc;        /\* 특정 날짜 조회 \*/  create or replace view vwDate  as  select  to\_date('2024-07-03', 'yyyy-mm-dd') regdate  from dual;  select  v.regdate as "날짜",  case  when to\_char(v.regdate, 'd') = '1' then '일요일'  when to\_char(v.regdate, 'd') = '7' then '토요일'  when h.holidayseq is not null then h.holidayname  when h.holidayseq is null and t.attendanceseq is null then '결석'  else t.attendancest  end as "상태"  from vwDate v  left outer join attendance t  on to\_char(v.regdate, 'yyyy-mm-dd') = to\_char(t.attendancedate, 'yyyy-mm-dd')  left outer join holiday h  on to\_char(v.regdate, 'yyyy-mm-dd') = to\_char(h.holidaydate, 'yyyy-mm-dd')  order by v.regdate asc; | | | |

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| 요구사항번호 | E-01 | 작성일 | 2025-02-06 |
| 요구사항명 | 공휴일 관련 | 작성자 | 박세원 |
| DML | | | |
| /\* 공휴일 \*/  /\*추가\*/  INSERT INTO holiday VALUES (holiday\_seq.nextval,'2024-07-15','학원휴일');  /\*조회\*/  create or replace view vwDate  as  select  to\_date('2024-07-03', 'yyyy-mm-dd') + level - 1 as regdate  from dual  connect by level <= (to\_date('2025-01-03', 'yyyy-mm-dd')  - to\_date('2024-07-03', 'yyyy-mm-dd') + 1);  select  v.regdate as "날짜",  case  when to\_char(v.regdate, 'd') = '1' then '일요일'  when to\_char(v.regdate, 'd') = '7' then '토요일'  when h.holidayseq is not null then h.holidayname  when h.holidayseq is null and t.attendanceseq is null then '결석'  else t.attendancest  end as "상태"  from vwDate v  left outer join attendance t  on to\_char(v.regdate, 'yyyy-mm-dd') = to\_char(t.attendancedate, 'yyyy-mm-dd')  left outer join holiday h  on to\_char(v.regdate, 'yyyy-mm-dd') = to\_char(h.holidaydate, 'yyyy-mm-dd')  order by v.regdate asc;  /\*수정\*/  update holiday set holidayname = '쉬는날' where holidayseq=16;  /\*삭제\*/  delete from holiday where holidayseq = 16; | | | |

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| 요구사항번호 | E-02 | 작성일 | 2025-02-06 |
| 요구사항명 | 자격증 | 작성자 | 박세원 |
| DML | | | |
| /\* 기업 \*/  /\*추가\*/  insert into enter values (enter\_Seq.NEXTVAL,1,5,'에이비일팔공','모바일 개발','인천',6601);  /\*조회\*/  select \* from enter;  /\*수정\*/  update enter set enterName = '카카오', enterBuseo = '모바일', enterLocation = '서울', enterSalary = 6600 where enter\_Seq=1;  /\*삭제\*/  delete from enter where enterSeq = 1;  /\* 자격증 종류 \*/  /\*추가\*/  insert into crtf values (4, '컴퓨터시스템응용기술사', '한국산업인력공단');  /\*조회\*/  select \* from crtf;  /\*수정\*/  update crtf set crtf = '자격증명', crtfService = '인증기관' where crtfSep = 1;  update crtf set crtf = '' where crtfSep = 1;  /\*삭제\*/  delete from Crtf where CrtfSeq = 1;  /\* 교육생의 이름과 자격증 \*/  /\*조회\*/  select  s.studentName as "학생 이름",  c.crtfName as "보유한 자격증"  from studentCrtf sc  inner join crtf c on sc.crtfSeq = c.crtfSeq  inner join student s on s.studentSeq = sc.studentSeq;  /\* 교육생의 자격증 \*/  /\*추가\*/  INSERT INTO studentCrtf VALUES (studentCrtf\_Seq.NEXTVAL,1,1,to\_date('2024-12-10','YYYY-MM-DD'));  /\*조회\*/  select \* from studentCrtf;  /\*수정\*/  update studentCrtf set crtfSeq = 1, studentSeq = 1, studentCrtfDate = '2024-12-12' where studentCrtfSeq = 1;  /\*삭제\*/  delete from studentCrtf where studentCrtfSeq = 1; | | | |

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| 요구사항번호 | E-03 | 작성일 | 2025-02-06 |
| 요구사항명 | 프로젝트 관련 | 작성자 | 서희원 |
| DML | | | |
| /\* 프로젝트 \*/  /\* 추가 \*/  INSERT INTO project VALUES (project\_seq.nextVal,1,1,'전설을 담는 코딩 챌린지 플랫폼','2024-07-11','사용자들이 서로 코딩 문제를 출제하고, 해결하여 순위를 겨루는 플랫폼으로, 경쟁과 학습을 동시에 제공합니다.');  /\* 조회 \*/  select \* from project;  /\* 수정 \*/  update project set teamSeq = 1, techSeq = 1, projectName = '프로젝트명', projectDate = '2024-07-11', projectContent ='프로젝트설명' where projectSeq = 1;  /\* 삭제 \*/  delete from project where projectSeq = 1;  /\* 해당학생(김가현) 프로젝트 사용스택 관련 기업 \*/  /\*조회\*/  select  e.enterName as "회사이름",  e.enterBuseo as "업무 내용",  t.techName as "사용하는 주요 기술"  from project p  inner join enter e on e.techSeq = p.techSeq  inner join tech t on e.techSeq = t.techSeq  inner join team te on te.teamSeq = p.teamSeq  inner join student s on s.studentSeq = te.studentSeq  where s.studentname = '김가현';  /\* 교육생자격증 & 프로젝트사용스택 관련 기업 \*/  /\*조회\*/  select  e.enterName as "회사명" ,  e.enterBuseo as "업무내용",  t.techName as "사용하는 주요 기술"  from project p  inner join enter e on e.techSeq = p.techSeq  inner join tech t on e.techSeq = t.techSeq  inner join team te on te.teamSeq = p.teamSeq  inner join student s on s.studentSeq = te.studentSeq  inner join studentCrtf sc on sc.studentSeq = s.studentSeq  inner join crtf c on c.crtfSeq = sc.crtfSeq  where s.studentname = '홍성준'; | | | |

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| 요구사항번호 | E-04 | 작성일 | 2025-02-06 |
| 요구사항명 | 학생평가관련 | 작성자 | 서희원 |
| DML | | | |
| /\* 과정평가 \*/  /\*추가\*/  INSERT INTO cGrade VALUES (cGrade\_Seq.nextval,1,1,10,'기초부터 탄탄하게 배울 수 있어 웹 개발이 쉬워졌어요.');  /\*조회\*/  select \* from cGrade;  /\*수정\*/  update cGrade set processSeq = 1, studentSeq = 1, cgradescore = 10, sgraderw ='강의평' where cGradeSeq = 1;  /\*삭제\*/  delete from cGrade where cGradeSeq = 1;  /\* 과정평가전체 \*/  /\*조회\*/  select  c.courseName as "과정명",  cg.cGradeScore as "평가 점수",  cg.cGradeRw as "평가 내용"  from cGrade cg  inner join process p on p.processSeq = cg.processSeq  inner join course c on p.courseSeq = c.courseSeq;  /\* 특정과정평가전체 \*/  /\*조회\*/  select  cg.cGradeScore as "점수",  cg.cGradeRw as "평가 내용"  from cGrade cg  inner join process p on p.processSeq = cg.processSeq  inner join course c on p.courseSeq = c.courseSeq  where p.processSeq = 7;  /\* 과정별 평균평점 \*/  /\*조회\*/  select  cg.processSeq as "번호",  c.courseName as "과정명",  round(avg(cg.cGradeScore),2) as "과정평가 평균점수"  from cGrade cg  inner join process p on p.processSeq = cg.processSeq  inner join course c on p.courseSeq = c.courseSeq  group by cg.processSeq, c.courseName; | | | |

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| 요구사항번호 | E-05 | 작성일 | 2025-02-06 |
| 요구사항명 | 학생평가관련 | 작성자 | 박세원 |
| DML | | | |
| /\* 학생 평가 \*/  /\*추가\*/  INSERT INTO sGrade VALUES (sGrade\_Seq.nextval,6,1,null,'문제 해결 능력이 뛰어나며 창의적인 접근 방식을 갖춘 학생입니다.');  /\*조회\*/  select \* from sGrade;  /\*수정\*/  update sGrade set teacherSeq = 1, studentSeq = 1, sgradescore = 50, sgraderw ='학생평가한줄평' where sGradeSeq = 1;  /\*삭제\*/  delete from sGrade where sGradeSeq = 1;  /\* 학생 전체 시험 평균점수 \*/  /\*조회\*/  SELECT  ST.STUDENTNAME as "학생 이름",  ROUND(AVG(SC.TOTALSCORE), 1) AS "평균 점수"  FROM STUDENT ST  INNER JOIN SCORE SC  ON ST.STUDENTSEQ = SC.STUDENTSEQ  GROUP BY ST.STUDENTNAME;  /\* 학생평가와 평균점수 \*/  /\*수정\*/  UPDATE SGRADE G  SET SGRADESCORE = (  SELECT ROUND(AVG(SC.TOTALSCORE), 1)  FROM SCORE SC  WHERE SC.STUDENTSEQ = G.STUDENTSEQ  )  WHERE EXISTS (  SELECT 1 FROM SCORE SC WHERE SC.STUDENTSEQ = G.STUDENTSEQ  ); | | | |

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| 요구사항번호 | E-06 | 작성일 | 2025-02-06 |
| 요구사항명 | 강사평가관련 | 작성자 | 박세원 |
| DML | | | |
| /\* 강사평가 \*/  /\* 추가 \*/  INSERT INTO tGrade VALUES (tGrade\_seq.nextval,1,27,9,'강의 내용이 잘 정리되어 있고, 실습을 통해 쉽게 이해할 수 있었습니다.');  /\* 조회 \*/  select \* from tgrade;  /\* 수정 \*/  update TGRADE set TGRADERW = '너무 좋아요' where TGRADESEQ=1;  /\* 삭제 \*/  delete from TGRADE where TEACHERSEQ = 1;  /\* 강사별 평균 평점 \*/  /\*조회\*/  select  t.teachername as "교사명",  round(avg(g.tgradescore),1) as "교사평균평점"  from tgrade g  inner join teacher t  on t.teacherseq = g.teacherseq  group by t.teachername; | | | |

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| 요구사항번호 | E-07 | 작성일 | 2025-02-06 |
| 요구사항명 | 학생지원금 | 작성자 | 박세원 |
| DML | | | |
| /\* 학생 지원금 \*/  /\* 조회 \*/  select s.studentname as "학생이름",  to\_char(m.moneymonth,'yyyy-mm') as "년도 - 월",  receivedmoney as "지원금"  from money m  inner join student s  on s.studentseq = m.studentseq  where m.studentseq=1; | | | |