**업무 쿼리문(ANSI-SQL)**

| 요구사항번호 | A-01(관리자) | 작성일 | 2023-04-07 |
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| 요구사항명 | 기초 정보 관리 | 작성자 | 한효원 |
| DML | | | |
| /\* 과정명 관리 \*/  --1.입력  insert into tblCurriculum(curriculum\_seq, curriculumName)  values ((select max(curriculum\_seq) from tblCurriculum) + 1, '(게임콘텐츠제작) 유니티 UNIY 게임프로그래밍 실무과정');  --2. 출력  select distinct  curriculumName as 과정명  from tblCurriculum;    --3. 수정  update tblCurriculum set curriculumName = '(게임콘텐츠제작) 유니티&언리얼 게임프로그래밍 실무과정'  where curriculum\_seq = 37;  --4. 삭제  delete from tblCurriculum  where curriculum\_seq = 37;    /\* 과목명 관리 \*/  --1.입력  insert into tblSubject(subject\_seq, subjectName)  values ((select max(subject\_seq) from tblSubject) + 1, '엘라스틱 서치');  --2. 출력  select  subjectName as 과목명  from tblSubject;    --3. 수정  update tblSubject set subjectName = 'Elastic Search'  where subject\_seq = 31;  --4. 삭제  delete from tblSubject  where subject\_seq = 31;  /\* 교재명 관리 \*/  --1.입력  insert into tblBook(book\_seq, bookName, bookPrice, bookPublisher, bookAuthor)  values((select max(book\_seq) from tblBook) + 1, '모두의 파이썬', 12000, '길벗(주)', '이승천');  --2. 출력  select  bookName as 제목,  bookPrice as 가격,  bookPublisher as 출판사,  bookAuthor as 저자  from tblBook;    --3-1. 교재명 수정  update tblBook set bookName = '모두의 파이썬 개정2판'  where book\_seq = 24;    --3-1. 교재 가격 수정  update tblBook set bookPrice = 10800  where book\_seq = 24;  --3-1. 출판사 수정  update tblBook set bookPublisher = '길벗'  where book\_seq = 24;  --3-1. 저자 수정  update tblBook set bookAuthor = '이승찬'  where book\_seq = 24;    --4. 삭제  delete from tblBook  where book\_seq = 24; | | | |

| 요구사항번호 | A-02(관리자) | 작성일 | 2023-04-07 |
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| 요구사항명 | 교사 계정 관리 | 작성자 | 한효원 |
| DML | | | |
| /\*교사 기본 정보\*/  -- 1. 입력  insert all  into tblMemberInfo(memberInfo\_seq, memberInfoid)  values((select max(memberinfo\_seq) from tblMemberinfo) + 1, 'teacherlllllll')  into tblTeacher(teacher\_seq, memberinfo\_seq, teacherSsn, teacherTel, teacherName)  values((select max(teacher\_seq) from tblTeacher) + 1, (select max(memberinfo\_seq) from tblMemberinfo), '700127-1684532', '010-6542-0456', '박시원')  select \* from dual;  -- 2. 출력  select  이름,  주민등록번호,  연락처  from vwTeacher;  -- 3-1. 이름 수정  update tblTeacher set teacherName = '박준영'  where teacher\_seq = 11;  -- 3-2. 주민번호 수정  update tblTeacher set teacherSsn = '700327-1684533'  where teacher\_seq = 11;  -- 3-3. 연락처 수정  update tblTeacher set teacherTel = '010-2456-7565'  where teacher\_seq = 11;  -- 4. 삭제  delete tblTeacher where teacher\_seq = 11;  /\*교사 강의 가능 과목 정보\*/  -- 1. 입력  insert into tblAvailSubject(teacher\_seq, subject\_seq)  values(11, (select subject\_seq from tblSubject where subjectName = 'Java'));    -- 2. 출력  select  t.teacherName as "교사명",  s.subjectName as "과목명"  from tblSubject s  inner join tblAvailSubject av  on s.subject\_seq = av.subject\_seq  inner join tblTeacher t  on t.teacher\_seq = av.teacher\_seq  order by teacherName;    -- 3. 수정  update tblAvailSubject set subject\_seq = 18 where teacher\_seq = 6 and subject\_seq = 12;  -- 4. 삭제  delete tblAvailSubject  where subject\_seq = 20 and teacher\_seq = 8;  /\* 전체 교사 명단 출력\*/  select  t.teacherName as 이름,  substr(t.teacherSsn, 8, 7) as 주민등록번호,  t.teacherTel as 연락처,  s.subjectName as "강의 가능 과목"  from tblTeacher t  inner join tblAvailSubject av  on t.teacher\_seq = av.teacher\_seq  inner join tblSubject s  on s.subject\_seq = av.subject\_seq  order by teacherName;  /\* 특정 교사 정보 출력\*/    select  s.subjectName as 과목명,  cs.cursubStart as "과목 시작일",  cs.cursubEnd as "과목 종료일",  bk.bookName as "교재명",  lt.lectureRoomnum || '호' as "강의실",  case  when cs.cursubEnd < sysdate then '강의종료'  when cs.cursubStart > sysdate then '강의예정'  else '강의중'  end as "강의 여부"  from tblCurSub cs  inner join tblSubject s on s.subject\_seq = cs.subject\_seq  inner join tblLecture lt on lt.curriculum\_seq = cs.curriculum\_seq  inner join tblSubBook sb on sb.subject\_seq = s.subject\_seq  inner join tblBook bk on bk.book\_seq = sb.book\_seq  inner join tblAvailSubject avs on avs.subject\_seq = s.subject\_seq and avs.teacher\_seq = cs.teacher\_seq  where cs.teacher\_seq = 1  group by s.subjectName, cs.cursubStart, cs.cursubEnd, bk.bookName, lt.lectureRoomNum  order by curSubStart; | | | |

| 요구사항번호 | A-03(관리자) | 작성일 | 2023-04-07 |
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| 요구사항명 | 개설 과정 관리 | 작성자 | 한효원 |
| DML | | | |
| /\*개설 과정 정보 > 과정명, 과정 기간(시작 년월일, 끝 년월일), 강의실 정보, 개설 과목 등록 여부, 교육생 등록인원 \*/  -- 1. 입력  insert all  into tblCurriculum(curriculum\_seq, curriculumName, curriculumStart, curriculumEnd)  values((select max(curriculum\_seq) from tblCurriculum) + 1, '빅데이터기반 AI알고리즘 서비스(추천,트레이딩)개발자 양성과정', '2023-12-04', '2024-4-19')  into tblLecture(lecture\_seq, lectureMaxStudent, curriculum\_seq, lectureRoomnum)  values((select max(lecture\_seq) from tblLecture) + 1, 30, (select max(curriculum\_seq) from tblCurriculum)+1, 1)  select \* from dual;  -- 2. 출력  select distinct  v.curriculumName as "과정명",  v.curriculumStart as "과정시작일",  v.curriculumEnd as "과정종료일",  v.lectureRoomnum || '호' as "강의실",  case  when cs.subject\_seq is null then 'N'  else 'Y'  end as "과목 등록 여부",  nvl(count(st.student\_seq), 0) as "교육생 등록 인원"  from vwCurrInfo v  left outer join tblCurSub cs  on v.curriculum\_seq = cs.curriculum\_seq  left outer join tblSelect s  on v.curriculum\_seq = s.curriculum\_seq  left outer join tblStudent st  on s.select\_seq = st.select\_seq  group by v.curriculumName, v.curriculumStart, v.curriculumEnd, v.lectureRoomnum, cs.cursubStart, cs.subject\_seq  order by v.curriculumStart;  -- 3-1. 과정 기간 수정  update tblCurriculum set curriculumStart = '2023-12-04', curriculumEnd = '2024-04-19'  where curriculum\_seq = 37;  -- 3-2. 강의실 정보 수정  update tblLecture set lectureRoomnum = 3  where curriculum\_seq = 37;  -- 4. 강의실, 과정 삭제  delete tblLecture  where curriculum\_seq = 37;    delete tblCurriculum  where curriculum\_seq = 37;  /\* 특정 개설 과정이 수료한 경우 등록된 교육생 전체에 대해서 수료날짜를 지정(중도탈락자 제외) \*/  update tblCertificate set certificateDate = (select curriculumEnd from tblCurriculum where curriculum\_seq = 31)  where certificateDetail = '졸업' and student\_seq between ((31 - 1) \* 30 + 1) and (31 \* 30);  /\* 특정 개설 과정 정보 과목명, 과목기간(시작 년월일, 끝년월일), 교재명, 교사명) 및 등록된 교육생 정보(교육생 이름, 주민번호 뒷자리, 등록일, 수료 및 중도 탈락) 조회 \*/  select distinct  v.subjectName as "과목명",  v.cursubStart as "과목시작일",  v.cursubEnd as "과목종료일",  v.bookName as "교재명",  v.teacherName as "교사명",  vs.applicantName as "교육생 이름",  substr(vs.applicantSsn, 8, 7) as "주민번호 뒷자리",  vs.studentRegdate as "등록일",  case  when c.certificateDetail = '졸업' then '수료'  when c.certificateDetail = '중도탈락' then '중도 탈락'  else '수강 중'  end as "수료 여부"  from vwSubInfo v  inner join vwSelectInfo vs on v.curriculum\_seq = vs.curriculum\_seq  inner join tblCertificate c on c.student\_seq = vs.student\_seq  where v.curriculum\_seq = 30  order by v.cursubStart, v.teacherName, vs.applicantName;  /\* 강의실 정보 추가 \*/  insert into tblLecture(lecture\_seq, lectureRoomnum, lectureMaxstudent)  values((select max(lecture\_seq) from tblLecture) + 1, (select max(lectureRoomnum) from tblLecture) + 1, 30); | | | |

| 요구사항번호 | A-04(관리자) | 작성일 | 2023-04-07 |
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| 요구사항명 | 개설 과목 관리 | 작성자 |  |
| DML | | | |
| /\*개설 과목 정보\*/  -- 1. 입력(과목 시작일, 과목 종료일, 과정번호, 과목번호, 교사번호 / 과목 번호, 교재번호)  insert all  into tblCurSub(cursubStart, cursubEnd, curriculum\_seq, subject\_seq, teacher\_seq)  values('2023-12-04', '2024-02-02', 38, 17, 2)  into tblSubBook(subject\_seq, book\_seq)  values(17, 26)  select \* from dual;  insert all  into tblCurSub(cursubStart, cursubEnd, curriculum\_seq, subject\_seq, teacher\_seq)  values('2024-02-05', '2024-04-28', 38, 19, 5)  into tblSubBook(subject\_seq, book\_seq)  values(19, 26)  select \* from dual;  insert all  into tblCurSub(cursubStart, cursubEnd, curriculum\_seq, subject\_seq, teacher\_seq)  values('2024-04-29', '2024-06-19', 38, 18, 11)  into tblSubBook(subject\_seq, book\_seq)  values(18, 27)  select \* from dual;  -- 2. 개설 과정 정보(과정명, 과정기간(시작 년월일, 끝 년월일), 강의실)와 과목명, 과목기간(시작 년월일, 끝 년월일), 교재명, 교사명 출력  select distinct  vc.curriculumName as "과정명",  vc.curriculumStart as "과정시작일",  vc.curriculumEnd as "과정종료일",  vc.lectureRoomNum as "강의실",  vs.subjectName as "과목명",  vs.cursubStart as "과목시작일",  vs.cursubEnd as "과목종료일",  vs.bookName as "교재명",  vs.teacherName as "교사명"  from vwCurrInfo vc  inner join vwSubInfo vs  on vc.curriculum\_seq = vs.curriculum\_seq  where vs.subject\_seq = 1  order by vc.curriculumName, vs.cursubStart;  -- 3-1. 과목 기간 수정  update tblCurSub set cursubStart = '2023-12-04', cursubEnd = '2024-02-01'  where curriculum\_seq = 37 and subject\_seq = 13;    -- 3-2. 담당 교사 수정  update tblCurSub set teacher\_seq = 1  where curriculum\_seq = 37 and subject\_seq = 13;    -- 3-3. 교재 번호 수정  update tblSubBook set book\_seq = 25  where subject\_seq = 13 and book\_seq = 24;  -- 4-1. 과목 정보 삭제  delete tblCurSub  where curriculum\_seq = 37 and subject\_seq = 13;  -- 4-2. 과목별 교재 정보 삭제  delete tblSubBook  where subject\_seq = 13;  /\* 특정 개설 과정 선택 시 개설 과목 정보 출력\*/  select distinct  vc.curriculumName as "과정명",  vs.subjectName as "과목명",  vs.cursubStart as "과목시작일",  vs.cursubEnd as "과목종료일",  vs.bookName as "교재명",  vs.teacherName as "교사명"  from vwCurrInfo vc  inner join vwSubInfo vs  on vc.curriculum\_seq = vs.curriculum\_seq  where vs.curriculum\_seq = 1  order by vs.cursubStart; | | | |

| 요구사항번호 | A-05(관리자) | 작성일 | 2023-04-07 |
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| 요구사항명 | 교육생 관리 | 작성자 | 연진섭 |
| DML | | | |
| - 교육생 정보 출력 : 교육생 이름, 주민번호 뒷자리, 전화번호, 등록일, 수강(신청) 횟수, 취업여부를 출력  select  app.applicantname as 교육생이름,  substr(to\_char(app.applicantssn),8) as 주민번호뒷자리,  app.applicanttel as 전화번호,  st.studentregdate as 등록일,  app.curriculum\_seq as 수강과정번호,  st.studentemployment as 취업여부  from tblstudent st  inner join tblselect s  on st.select\_seq = s.select\_seq  inner join tblinterview int  on int.interview\_seq = s.interview\_seq  inner join tblapplicant app  on app.applicant\_seq = int.applicant\_seq;    - 특정 교육생 선택시 교육생이 수강 신청한 또는 수강중인 수강했던 개설 과정 정보(과정명, 과정기간(시작 년월일, 끝 년월일), 강의실, 수료 및 중도 탈락의 여부, 수료 및 중도탈락 날짜를 출력  select distinct  curri.curriculumName as 과정명,  curri.curriculumStart as 시작일,  curri.curriculumend as 종료일,  lec.lectureroomnum as 강의실,  cer.certificatedetail as 수료및중도탈락여부,  case  when cer.certificatedetail = '졸업' or cer.certificatedetail = '수강중' then curri.curriculumend  when cer.certificatedetail = '중도탈락' then cer.certificatedate  end as 수료및중도탈락날짜  from tblstudent st  inner join tblselect s  on st.select\_seq = s.select\_seq  inner join tblcurriculum curri  on curri.curriculum\_seq = s.curriculum\_seq  inner join tbllecture lec  on lec.curriculum\_seq = curri.curriculum\_seq  inner join tblcertificate cer  on cer.student\_seq = st.student\_Seq  where st.student\_seq = 731; | | | |

| 요구사항번호 | A-06(관리자) | 작성일 | 2023-04-07 |
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| 요구사항명 | 시험 관리 및 성적 조회 | 작성자 | 김재욱 |
| DML | | | |
| 특정 개설 과정을 선택 > 개설된 과목 정보를 출력하고, 개설 과목 별로 성적 등록 여부, 시험 문제 파일 등록 여부를 조회    select    distinct  cr.curriculumName,  sj.subjectName,  cs.cursubStart,  cs.cursubEnd,  t.teacherName,    case  when (select count(writtenScore) from tblWrittenTest  where writtenScore is not null and writtenDate between cursubStart and cursubEnd) > 0 then 'Y' else 'N'  end as "필기성적 등록 여부",  case  when (select count(practicalScore) from tblPracticalTest  where practicalScore is not null and practicalDate between cursubStart and cursubEnd) > 0 then 'Y' else 'N'  end as "실기성적 등록 여부",    case  when (select count(subject\_seq) from tblwrQuestion where subject\_seq in (1 ,8 ,11)) = 30 then 'Y' else 'N'  end as "필기 문제 등록 여부",    case  when (select count(subject\_seq) from tblprQuestion where subject\_seq in (1 ,8 ,11)) = 30 then 'Y' else 'N'  end as "실기 문제 등록 여부"      from tblcurriculum cr  inner join tblCursub cs on cr.curriculum\_seq = cs.curriculum\_seq  inner join tblSubject sj on sj.subject\_seq = cs.subject\_seq  inner join tblPracticalTest pt on sj.subject\_seq = pt.subject\_seq  inner join tblWrittenTest wt on sj.subject\_seq = wt.subject\_seq  inner join tblTeacher t on t.teacher\_seq = cs.teacher\_seq  inner join tblPrQuestion pq on sj.subject\_seq = pq.subject\_seq  inner join tblWrQuestion wq on sj.subject\_seq = wq.subject\_seq  where cr.curriculum\_seq = 30  order by cs.cursubStart;  개설 과목명 입력시 결과 출력  select  distinct  cr.curriculumName,  cr.curriculumStart,  cr.curriculumEnd,  lt.lectureRoomNum,  sj.subjectName,  t.teacherName,  b.bookName    from tblCurriculum cr  inner join tblLecture lt on cr.curriculum\_seq = lt.curriculum\_seq  inner join tblCursub cs on cr.curriculum\_seq = cs.curriculum\_seq  inner join tblSubject sj on sj.subject\_seq = cs.subject\_seq  inner join tblTeacher t on t.teacher\_seq = cs.teacher\_seq  inner join tblSubBook sb on sj.subject\_seq = sb.subject\_seq  inner join tblBook b on b.book\_seq = sb.book\_seq    where sj.subjectName = 'Oracle' --찾고자 하는 과목 이름 입력  order by cr.curriculumStart;  교육생 개인별 성적 출력 교육생 개인별 출력시 교육생 이름, 주민번호 뒷자리,  --개설 과정명, 개설 과정기간, 강의실명 등을 출력하고, 교육생 개인이 수강한 모든 개설 과목에 대한 성적 정보(개설 과목명, 개설 과목 기간, 교사명, 출력, 필기, 실기)를 같이 출력한다.  select distinct  app.applicantName as 교육생이름,  substr(to\_char(app.applicantssn),8) as 주민번호,  curri.curriculumname as 개설과정명,  curri.curriculumstart as 과정시작일,  curri.curriculumend as 과정종료일,  stu.student\_seq as 학생번호,  sc.attscore as 출석점수,  pt.practicalscore as 필기점수,  wt.writtenscore as 실기점수,  sj.subjectName as 과목명,  b.bookname as 교재명,  tec.teachername as 교사명,  lec.lectureroomnum as 강의실번호  from tblstudent stu  inner join tblselect sel on sel.select\_seq = stu.select\_seq  inner join tblinterview int on int.interview\_seq = sel.interview\_seq  inner join tblapplicant app on app.applicant\_seq = int.applicant\_seq  inner join tblscore sc on stu.student\_seq = sc.student\_seq  inner join tblpracticaltest pt on pt.practical\_seq = sc.practical\_seq  inner join tblwrittentest wt on wt.written\_seq = sc.written\_seq  inner join tblsubject sj on sj.subject\_seq = pt.subject\_seq  inner join tblavailsubject av on sj.subject\_seq = av.subject\_seq  inner join tblsubbook sb on sb.subject\_seq = sj.subject\_seq  inner join tblbook b on b.book\_seq = sb.book\_seq  inner join tblteacher tec on av.teacher\_seq = tec.teacher\_seq  inner join tblcursub cur on cur.subject\_seq = sj.subject\_seq and cur.teacher\_seq = tec.teacher\_seq  inner join tblcurriculum curri on curri.curriculum\_seq = cur.curriculum\_seq  inner join tbllecture lec on lec.curriculum\_seq = curri.curriculum\_seq  where curri.curriculum\_seq = 30 and stu.student\_seq = 892; -- 해당 과정 교육생 번호 입력 | | | |

| 요구사항번호 | A-07(관리자) | 작성일 | 2023-04-07 |
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| 요구사항명 | 출결 관리 및 출결 조회 | 작성자 | 김재욱 |
| DML | | | |
| 특정 개설 과정을 선택하는 경우 모든 교육생의 출결 조회 > 기간별 조회  --1. 전체 기간 조회  create or replace view vwattendanceCheck as  select  st.student\_seq as "교육생",  a.attendancedate as "날짜",  a.attendancechecktime as "입실시간",  a.attendanceouttime as "퇴실시간",  a.attendanceDetail as "출결현황",  case  when a.attendanceDate in (select holidayDate from tblHoliday where holidayDate between '2022-12-05' and '2023-05-29')  then '휴일'  end as 공휴일  from  tblabsent ab  inner join tblstudent st on ab.student\_seq = st.student\_seq  inner join tblattendance a on a.student\_seq = st.student\_seq  inner join tblCurEval ce on st.student\_seq = ce.student\_seq  inner join tblCurriculum cr on cr.curriculum\_seq = ce.curriculum\_seq  where  a.attendancedate >= cr.curriculumstart and a.attendancedate <= cr.curriculumend  order by  a.attendancedate, st.student\_seq;    `  --2. 월별 조회  select  st.student\_seq as "교육생",  a.attendancedate as "날짜",  a.attendancechecktime as "입실시간",  a.attendanceouttime as "퇴실시간",  a.attendanceDetail as "출결현황"  from  tblabsent ab  inner join tblstudent st on ab.student\_seq = st.student\_seq  inner join tblattendance a on a.student\_seq = st.student\_seq  inner join tblCurEval ce on st.student\_seq = ce.student\_seq  inner join tblCurriculum cr on cr.curriculum\_seq = ce.curriculum\_seq  where  a.attendancedate between '2023-01-01' and '2023-01-31' -- 월단위 입력  order by  a.attendancedate, st.student\_seq;    --3. 일별 조회    select  st.student\_seq as "교육생",  a.attendancedate as "날짜",  a.attendancechecktime as "입실시간",  a.attendanceouttime as "퇴실시간",  a.attendanceDetail as "출결현황"  from  tblabsent ab  inner join tblstudent st on ab.student\_seq = st.student\_seq  inner join tblattendance a on a.student\_seq = st.student\_seq  inner join tblCurEval ce on st.student\_seq = ce.student\_seq  inner join tblCurriculum cr on cr.curriculum\_seq = ce.curriculum\_seq  where  a.attendancedate = '2023-01-04 -- 일일단위 입력  order by  a.attendancedate, st.student\_seq;  -- - 특정(특정 과정, 특정 인원) 출결 현황을 조회  select  s.student\_seq as "교육생 번호",  to\_char(a.attendanceDate, 'YYYY-MM') as "날짜",  count(case when a.attendanceDetail = '정상' then 1 end) as "출석",  count(case when a.attendanceDetail = '지각' then 1 end) as "지각",  count(case when a.attendanceDetail = '조퇴' then 1 end) as "조퇴",  count(case when a.attendanceDetail = '결석' then 1 end) as "결석",  count(case when a.attendanceDetail = '병가' then 1 end) as "병가",  count(case when a.attendanceDetail = '기타' then 1 end) as "기타"  from  tblAttendance a  inner join tblStudent s on a.student\_seq = s.student\_seq  inner join tblCurEval ce on s.student\_seq = ce.student\_seq  inner join tblCurriculum cr on ce.curriculum\_seq = cr.curriculum\_seq  where  cr.curriculum\_seq = 30  and s.student\_seq = 890  and a.attendanceDate between to\_date('2023-03-01', 'YYYY-MM-DD') and to\_date('2023-03-31', 'YYYY-MM-DD')  group by  s.student\_seq,  to\_char(a.attendanceDate, 'YYYY-MM')  order by  s.student\_seq,  to\_char(a.attendanceDate, 'YYYY-MM'); | | | |

| 요구사항번호 | A-08(관리자) | 작성일 | 2023-04-07 |
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| 요구사항명 | 교육생 선발 기능 | 작성자 | 김재욱 |
| DML | | | |
| - 지원자 목록(이름, 휴대폰 번호, 생년월일, 학력, 전공 여부)을 조회  select  applicantName, -- 신청인 이름  applicanttel, -- 신청인 전화번호  to\_date(substr(applicantSsn, 1, 6), 'yymmdd') as birth, -- 신청인 생년월일  applicantEducationLevel, -- 신청인 학력  applicantMajor -- 신청인 전공 여부    from tblApplicant;  학습 의지와 취업 의지 점수를 입력  -- 신청인 추가 후  insert into tblapplicant values((select max(applicant\_seq) from tblApplicant) + 1, '940203-1123483', '010-2324-9384', '김우현', '초대졸', '전공', 37);  -- 면접을 본 신청인 의 점수 입력  insert into tblInterview values((select max(interview\_seq) from tblInterview) + 1, 20, 34, (select max(applicant\_seq) from tblInterview) + 1);  -- - 면접 점수 기준 내림차순으로 지원자를 출력  select    ap.applicantName,  i.intlearningPassion,  i.intemploymentPassion,  s.selectScore,  s.selectPassfail    from tblSelect s  inner join tblInterview i  on i.interview\_seq = s.interview\_seq  inner join tblApplicant ap  on ap.applicant\_seq = i.applicant\_seq  order by selectScore desc;  선발된 지원자의 정보를 교육생 목록에 추가  --먼저 신청하고  insert into tblapplicant values((select max(applicant\_seq) from tblApplicant) + 1, '940203-1123483', '010-2324-9384', '김우현', '초대졸', '전공', 37);  --신청한 사람 면접 보고  insert into tblInterview values((select max(interview\_seq) from tblInterview) + 1, 20, 34, (select max(applicant\_seq) from tblInterview) + 1);  --합격한 사람 정보 등록하고  insert into memberInfo values((select max(memberInfo\_seq)+1 from tblmemberInfo),'fewbjhbwj');  -- 그 정보를 교육생에 추가  insert into tblStudent(student\_seq, studentRegdate, studentEmployment, select\_seq, memberinfo\_seq)  values((select max(select\_seq) from tblSelect), '2023-12-04', 'N', (select max(select\_seq) from tblSelect), (select max(memberInfo\_seq) from tblmemberInfo)); | | | |

| 요구사항번호 | A-09(관리자) | 작성일 | 2023-04-07 |
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| 요구사항명 | 과목별 교재 관리 기능 | 작성자 | 김재욱 |
| DML | | | |
| --조회  select  distinct s.subjectName,  b.bookName  from tblSubject s  inner join tblSubBook sb  on s.subject\_seq = sb.subject\_seq  inner join tblBook b  on b.book\_seq = sb.book\_seq  where subjectName = 'Java'; --찾고자 하는 과목 이름 입력    --등록  insert into tblBook (seqBook.nextval, '이것이 자바다 (교육 현장에서 가장 많이 쓰이는 JAVA 프로그래밍의 기본서)', 32400, '신용권', '한빛미디어');        --수정  update tblBook  set bookPrice = 30000 where bookseq = 24;  --삭제  delete from tblBook  where bookseq = 24; | | | |

| 요구사항번호 | A-10(관리자) | 작성일 | 2023-04-07 |
| --- | --- | --- | --- |
| 요구사항명 | 사후처리 기능 | 작성자 | 김재욱 |
| DML | | | |
| 교육생의 취업 여부를 입력  select \* from tblStudent;    insert into tblStudent(student\_seq, studentRegdate, studentEmployment,select\_seq, memberInfo\_seq)  values(select max(student\_seq)+1 from tblStudent, '2023-06-07', 'Y',  select max(select\_seq)+1 from tblSelect, select max(memberInfo\_seq)+1 from tblMemberInfo);    강좌별 취업률 통계를 입력    select    round(count(studentEmployment)/30, 2)    from tblStudent s  inner join tblCurEval e  on s.student\_seq = e.student\_seq  inner join tblCurriculum c  on c.curriculum\_seq = e.curriculum\_seq  inner join tblLecture lt  on c.curriculum\_seq = lt.curriculum\_seq  where c.curriculum\_seq = 26  group by studentEmployment  having studentEmployment = 'Y';      select \* from tblStudent;    select \* from tblCurriculum; | | | |

| 요구사항번호 | A-11(관리자) | 작성일 | 2023-04-07 |
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| 요구사항명 | 과정 평가 조회 기능 | 작성자 | 김완진 |
| DML | | | |
| – 2021년 ~ 2023년 까지의 모든 과정에 등록된 수강생들별 평가점수와 평가내용 조회  select  tc.curriculumname, ta.applicantname, te.evalscore, te.evalcontent  from tblapplicant ta  inner join tblselect ts  on ta.applicant\_Seq = ts.select\_Seq  inner join tblstudent tsu  on ts.select\_seq = tsu.select\_seq  inner join tblcurriculum tc  on ts.curriculum\_seq = tc.curriculum\_Seq  inner join tblcureval te  on te.cureval\_seq= tc.curriculum\_seq; | | | |

| 요구사항번호 | A-12(관리자) | 작성일 | 2023-04-07 |
| --- | --- | --- | --- |
| 요구사항명 | 국민취업지원제도 조회 | 작성자 | 김완진 |
| DML | | | |
| –과거에 수강한 학생의 국민취업제도 가입여부 + 현재 수강하고 있는 학생의 국민취업제도  --a.국취제에 가입된 학생 + 국취제에 가입되지 않은 학생 뷰생성  create or replace view vwallkua  as  select  applicantname, kuatype, kuaallowance, kuaregdate, kuacenter, student\_seq, 'Y' as kuajoin  from vwjoinkua vj  union all  select  applicantname, kuatype, kuaallowance, kuaregdate, kuacenter, student\_seq, 'N' as kuajoin  from vwnotjoinkua vnj;  select \* from vwallkua;  -- 수강중인 학생중 국민취업지원 제도에 가입된 학생 전체 조회  --720 ~ 900  -- 현재 수강생 중  select  vs.applicantname, tk.kuatype, tk.kuaallowance, tk.kuaregdate, tk.kuacenter, tk.student\_seq  from vwselectinfo vs  inner join tblselect ts  on vs.applicant\_Seq = ts.select\_Seq  inner join tblstudent tsu  on ts.select\_seq = tsu.select\_seq  inner join tblkua tk  on tsu.student\_seq = tk.student\_seq  where tk.student\_seq between 720 and 900  order by tsu.student\_seq asc;  -- 과거 국민취업지원제도에 가입된 교육생 + 현재 국민취업지원제도에 가입된 교육생  select  vs.applicantname, tk.kuatype, tk.kuaallowance, tk.kuaregdate, tk.kuacenter, tk.student\_seq  from vwselectinfo vs  inner join tblselect ts  on vs.applicant\_Seq = ts.select\_Seq  inner join tblstudent tsu  on ts.select\_seq = tsu.select\_seq  inner join tblkua tk  on tsu.student\_seq = tk.student\_seq  order by tsu.student\_seq asc;  -- 선발된 학생중 국민취업지원 제도에 가입되지 않은 학생 전체 조회  select  ta.applicantname, tk.kuatype, tk.kuaallowance, tk.kuaregdate, tk.kuacenter, tk.student\_seq  from tblapplicant ta  inner join tblselect ts  on ta.applicant\_Seq = ts.select\_Seq  inner join tblstudent tst  on ts.select\_Seq = tst.select\_seq  left outer join tblkua tk  on tst.student\_seq = tk.student\_seq  where ts.selectpassfail = '합격'  and tk.kuatype is null;  -- 국취제에 가입된 학생정보 뷰생성  create or replace view vwjoinkua  as  select  ta.applicantname, tk.kuatype, tk.kuaallowance, tk.kuaregdate, tk.kuacenter, tk.student\_seq  from tblapplicant ta  inner join tblselect ts  on ta.applicant\_Seq = ts.select\_Seq  inner join tblstudent tsu  on ts.select\_seq = tsu.select\_seq  inner join tblkua tk  on tsu.student\_seq = tk.student\_seq  where ts.selectpassfail = '합격'  and tsu.student\_seq = tk.student\_seq  order by tsu.student\_seq asc;    -- 국취제에 가입안된 학생정보 뷰생성  create or replace view vwnotjoinkua  as  select  ta.applicantname, tk.kuatype, tk.kuaallowance, tk.kuaregdate, tk.kuacenter, tst.student\_seq  from tblapplicant ta  inner join tblselect ts  on ta.applicant\_Seq = ts.select\_Seq  inner join tblstudent tst  on ts.select\_Seq = tst.select\_seq  left outer join tblkua tk  on tst.student\_seq = tk.student\_seq  where ts.selectpassfail = '합격'  and tk.kuatype is null; | | | |

| 요구사항번호 | B-01(교사) | 작성일 | 2023-04-07 |
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| 요구사항명 | 강의 스케줄 조회 | 작성자 | 김완진 |
| DML | | | |
| --강의 스케줄 정보 출력 > 과정번호, 과정명, 과정기간(시작 년월일, 끝 년월일),  -- 강의실과 과목명, 과목기간(시작 년월일, 끝년월일), 교재명, 교육생 등록 인원  select  tc.curriculum\_seq,  tc.curriculumname,  tc.curriculumstart,  tc.curriculumend,  cs.teacher\_seq,  lt.lectureRoomnum,  s.subjectName,  cs.cursubStart,  cs.cursubEnd,  bk.bookName,  lt.lecturemaxstudent  from tblCurSub cs  inner join tblcurriculum tc on cs.curriculum\_seq = tc.curriculum\_seq  inner join tblSubject s on s.subject\_seq = cs.subject\_seq  inner join tblLecture lt on lt.curriculum\_seq = cs.curriculum\_seq  inner join tblSubBook sb on sb.subject\_seq = s.subject\_seq  inner join tblBook bk on bk.book\_seq = sb.book\_seq  inner join tblAvailSubject avs on avs.subject\_seq = s.subject\_seq  where cs.teacher\_seq = 1 and avs.teacher\_seq = 1  group by s.subjectName, cs.cursubStart, cs.cursubEnd, bk.bookName, lt.lectureRoomNum, tc.curriculumname, cs.teacher\_seq  ,lt.lecturemaxstudent, tc.curriculumstart, tc.curriculumend, tc.curriculum\_seq  order by curSubStart; | | | |

| 요구사항번호 | B-02(교사) | 작성일 | 2023-04-07 |
| --- | --- | --- | --- |
| 요구사항명 | 교육생 정보 조회 기능 | 작성자 | 김완진 |
| DML | | | |
| –교육생 정보(교육생 이름, 전화번호, 등록일, 과목명)을 확인  select  distinct  vs.applicantname, vs.applicanttel, ts.studentregdate, tsb.subjectname  from vwselectinfo vs  inner join tblstudent ts  on ts.select\_seq = vs.select\_seq  inner join tblcurriculum tc  on tc.curriculum\_seq = vs.curriculum\_seq  inner join tblcursub tcs  on tcs.curriculum\_seq = tc.curriculum\_seq  inner join tblsubject tsb  on tsb.subject\_seq = tcs.subject\_seq  inner join tblavailsubject avs  on tcs.teacher\_seq = avs.teacher\_seq  where tcs.teacher\_seq = 1 and avs.teacher\_seq = 1  and tcs.subject\_seq = 1  order by ts.studentregdate desc; | | | |

| 요구사항번호 | B-03(교사) | 작성일 | 2023-04-07 |
| --- | --- | --- | --- |
| 요구사항명 | 과목별 성적 조회기능 | 작성자 | 김완진 |
| DML | | | |
| – 과목명, 학생이름, 출결점수, 실기점수, 필기점수, 총점을 출력  select  tsub.subjectname, vs.applicantname,  tsc.attscore, tpt.practicalscore, twt.writtenscore,  tsc.attscore+tpt.practicalscore+twt.writtenscore as "총점"  from vwselectinfo vs  inner join tblstudent ts on vs.student\_seq = ts.student\_Seq  inner join tblscore tsc on tsc.student\_seq = ts.student\_seq  inner join tblwrittentest twt on tsc.written\_seq = twt.written\_seq  inner join tblpracticaltest tpt on tsc.practical\_seq = tpt.practical\_seq  inner join tblsubject tsub on twt.subject\_seq = tsub.subject\_seq  inner join tblavailsubject tav on tsub.subject\_seq = tav.subject\_seq  inner join tblteacher tt on tav.teacher\_seq = tt.teacher\_seq  where tsub.subject\_seq = psub  and tt.teacher\_seq = 1  and tsc.attscore+tpt.practicalscore+twt.writtenscore is not null  order by "총점" desc; | | | |

| 요구사항번호 | B-04(교사) | 작성일 | 2023-04-07 |
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| 요구사항명 | 출결 관리 및 출결 조회 | 작성자 | 김완진 |
| DML | | | |
| -- 자신이 강의한 과목에 한해 선택하는 경우 모든 교육생의 출결을 조회  select  tsu.student\_seq, vs.applicantname, ta.attendancedate,  ta.attendancechecktime, ta.attendanceouttime, ta.attendancedetail,  tab.late, tab.leaveearly, tab.outing, tab.absent, tsub.subject\_seq,  tsub.subjectname, tt.teachername  from tblselect ts  inner join tblstudent tsu  on ts.select\_Seq = tsu.select\_seq  inner join tblattendance ta  on ta.student\_seq = tsu.student\_seq  inner join vwselectinfo vs  on vs.select\_seq = tsu.select\_seq  inner join tblcurriculum tc  on ts.curriculum\_seq = tc.curriculum\_seq  inner join tblabsent tab  on tab.student\_seq = tsu.student\_seq  inner join tblcursub tcs  on tcs.curriculum\_seq = tc.curriculum\_seq  inner join tblsubject tsub  on tsub.subject\_seq = tcs.subject\_seq  inner join tblavailsubject ava  on tsub.subject\_seq = ava.subject\_seq  inner join tblteacher tt  on ava.teacher\_seq = tt.teacher\_seq  where tt.teacher\_seq = 6  and tsub.subject\_seq = 8  order by ta.attendancedate desc; | | | |

| 요구사항번호 | B-05(교사) | 작성일 | 2023-04-07 |
| --- | --- | --- | --- |
| 요구사항명 | 우수학생 조회 기능 | 작성자 | 김완진 |
| DML | | | |
| -- 자신이 강의한 과목에 한해 학생들을 성적순으로 나열하여 10위까지 순위를 매겨줌  select  tsub.subjectname, vs.applicantname,  tsc.attscore, tpt.practicalscore, twt.writtenscore,  tsc.attscore+tpt.practicalscore+twt.writtenscore as "총점",  dense\_rank() over(order by tsc.attscore+tpt.practicalscore+twt.writtenscore desc) as javarank  from vwselectinfo vs  inner join tblstudent ts on vs.student\_seq = ts.student\_Seq  inner join tblscore tsc on tsc.student\_seq = ts.student\_seq  inner join tblwrittentest twt on tsc.written\_seq = twt.written\_seq  inner join tblpracticaltest tpt on tsc.practical\_seq = tpt.practical\_seq  inner join tblsubject tsub on twt.subject\_seq = tsub.subject\_seq  inner join tblavailsubject tav on tsub.subject\_seq = tav.subject\_seq  inner join tblteacher tt on tav.teacher\_seq = tt.teacher\_seq  where tsub.subject\_seq = 1  and tt.teacher\_seq = 1  and javarank <= 10  group by tsub.subjectname, vs.applicantname,  tsc.attscore, tpt.practicalscore, twt.writtenscore  having tsc.attscore+tpt.practicalscore+twt.writtenscore is not null; | | | |

| 요구사항번호 | B-06(교사) | 작성일 | 2023-04-07 |
| --- | --- | --- | --- |
| 요구사항명 | 교사 평가 조회 기능 | 작성자 | 연진섭 |
| DML | | | |
| select  student\_seq as 학생번호,  curriculumname as 과정명,  evalscore as 평점,  ltrim(evalcontent)as 평가내용  from  ( select  \*  from tblcureval  where curriculum\_seq in (select distinct curriculum\_seq from tblcursub where subject\_seq in (select distinct  sj.subject\_seq  from tblteacher tec  inner join tblavailsubject av  on av.teacher\_seq = tec.teacher\_seq  inner join tblsubject sj  on sj.subject\_seq = av.subject\_seq  where tec.teacher\_seq = 1) and teacher\_seq = 1)) evaltable  inner join tblcurriculum curri  on evaltable.curriculum\_seq = curri.curriculum\_seq; -- 선택한 교사가 가르친 과목이 포함된 과정의 평가 + 과정 이름 | | | |

| 요구사항번호 | B-07 | 작성일 | 2023-04-07 |
| --- | --- | --- | --- |
| 요구사항명 | 과정별 취업률 조회 기능 | 작성자 | 연진섭 |
| DML | | | |
| select round((select  count(studentemployment )  from  (select  \*  from tblstudent st  inner join tblcureval ce  on st.student\_seq = ce.student\_seq  inner join tblcurriculum curri  on curri.curriculum\_seq = ce.curriculum\_seq  where curri.curriculum\_seq = 6) -- 여기에 원하는 과정 입력  where studentEmployment = 'Y') / 30,2) \* 100 || '%' 취업률    from dual; | | | |

| 요구사항번호 | C-01(교육생) | 작성일 | 2023-04-07 |
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| 요구사항명 | 성적 조회 | 작성자 | 연진섭 |
| DML | | | |
| 1. 교육생이 로그인에 성공하면 교육생 개인의 정보와 교육생이 수강한 과정명, 과정기간(시작 년월일, 끝 년월일), 강의실이 타이틀로 출력됨 (?)   이름,주민번호,전화번호,과정명,과정기간,강의실  select  app.applicantName as 이름,  app.applicantssn as 주민번호,  app.applicanttel as 전화번호,  cul.curriculumname as 과정명,  cul.curriculumstart as 과정시작일,  cul.curriculumend as 과정종료일,  lec.lectureroomnum as 강의실번호  from tblstudent stu  inner join tblselect sel  on stu.select\_seq = sel.select\_seq  inner join tblinterview int  on int.interview\_seq = sel.interview\_seq  inner join tblapplicant app  on app.applicant\_seq = int.applicant\_seq  inner join tblcurriculum cul  on cul.curriculum\_seq = app.curriculum\_seq  inner join tbllecture lec  on lec.curriculum\_seq = cul.curriculum\_seq  where substr(to\_char(app.applicantssn),8) = '1796865';  2. 성적 정보는 과목별로 목록 형태로 출력  > 과목번호, 과목명, 과목기간(시작 년월일, 끝 년월일), 교재명, 교사명, 과목별 성적 정보(출결, 필기, 실기 점수), 과목별 시험날짜 출력    select  distinct  stu.student\_seq as 학생번호,  sc.attscore as 출석점수,  pt.practicalscore as 필기점수,  wt.writtenscore as 실기점수,  sj.subjectName as 과목명,  b.bookname as 교재명  from tblstudent stu  inner join tblscore sc  on stu.student\_seq = sc.student\_seq  inner join tblpracticaltest pt  on pt.practical\_seq = sc.practical\_seq  inner join tblwrittentest wt  on wt.written\_seq = sc.written\_seq  inner join tblsubject sj  on sj.subject\_seq = pt.subject\_seq  inner join tblavailsubject av  on sj.subject\_seq = av.subject\_seq  inner join tblsubbook sb  on sb.subject\_seq = sj.subject\_seq  inner join tblbook b  on b.book\_seq = sb.book\_seq  where stu.student\_seq = 730  order by 학생번호 asc; | | | |

| 요구사항번호 | C-02(교육생) | 작성일 | 2023-04-07 |
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| 요구사항명 | 출결 관리 및 출결 조회 | 작성자 | 연진섭 |
| DML | | | |
| --1. 전체 기간 조회  select  a.attendancedate as 날짜,  a.attendancechecktime as 입실시간,  a.attendanceouttime as 퇴실시간  from tblabsent ab  inner join tblstudent st  on ab.student\_seq = st.student\_seq  inner join tblattendance a  on a.student\_seq = st.student\_seq  where st.student\_seq = 721; -- 본인 교육생번호 입력        --2. 월별 조회  select  a.attendancedate as 날짜,  a.attendancechecktime as 입실시간,  a.attendanceouttime as 퇴실시간  from tblabsent ab  inner join tblstudent st  on ab.student\_seq = st.student\_seq  inner join tblattendance a  on a.student\_seq = st.student\_seq  where to\_char(a.attendancedate) like '%/03/%' and st.student\_seq = 900; -- 08자리에 원하는 월 XX형식으로 입력 and 본인 교육생번호 입력    --3. 일별 조회  select  a.attendancedate as 날짜,  a.attendancechecktime as 입실시간,  a.attendanceouttime as 퇴실시간  from tblabsent ab  inner join tblstudent st  on ab.student\_seq = st.student\_seq  inner join tblattendance a  on a.student\_seq = st.student\_seq  where to\_char(a.attendancedate) like '23/09/12' and st.student\_seq = 922; -- 조회하고 싶은 날짜 입력 and 본인 교육생번호 입력 | | | |

| 요구사항번호 | C-03(교육생) | 작성일 | 2023-04-07 |
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| 요구사항명 | 교사 평가 등록 기능 | 작성자 | 연진섭 |
| DML | | | |
| insert into tblCurEval values(1081,5,to\_date('2023-11-29','yyyy-mm-dd'),' 이 강의는 내가 기대한 것보다 더 좋았습니다. 강사는 매우 자세하게 설명하였으며, 수업 내용도 매우 유익하고 흥미롭게 다루었습니다. 강력 추천합니다!',36, 1081); | | | |

| 요구사항번호 | C-04(교육생) | 작성일 | 2023-04-07 |
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| 요구사항명 | 국민취업제도 정보 입력 기능 | 작성자 | 연진섭 |
| DML | | | |
| 1. 신청자 정보 등록   insert into tblapplicant values((select max(applicant\_seq) from tblapplicant) + 1, '980618-1262223','010-3762-9073','하하하','고졸','비전공',37);   1. 면접 정보 등록   insert into tblinterview values((select max(interview\_seq) from tblinterview) + 1, 40,40, (select max(applicant\_seq) from tblapplicant));   1. 선발 정보 등록   insert into tblselect values((select max(select\_seq) from tblselect) + 1,(select (INTLEARNINGPASSION + INTEMPLOYMENTPASSION) from tblinterview where interview\_seq = ((select max(interview\_seq) from tblinterview)) ) ,'합격',(select max(interview\_seq) from tblinterview), 37);   1. 멤버 정보 등록   insert into tblmemberinfo values((select max(memberinfo\_seq) from tblmemberinfo) +1, 'asdfvqhfdxvdsqr');   1. 교육생 정보 등록   insert into tblStudent(student\_seq,studentRegdate,studentEmployment,memberinfo\_seq,select\_seq) values ((select max(student\_seq) from tblstudent) + 1, to\_date('2023-06-07','yyyy-mm-dd'),'N',(select max(select\_seq) from tblselect),(select max(memberinfo\_seq) from tblmemberinfo)); | | | |

| 요구사항번호 | C-05(교육생) | 작성일 | 2023-04-07 |
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| 요구사항명 | 교육생 정보 조회 기능 | 작성자 | 김완진 |
| DML | | | |
| -- 학생정보 찾기(아이디, 비밀번호 입력)  -- 이름, 전화번호, 아이디, 과정, 과정시작날짜, 과정종료날짜  select  vs.applicantname as "이름"  ,substr(vs.applicantssn, 8, 7) as "비밀번호",  vs.applicanttel as "전화번호",  tmi.memberinfoid as "아이디",  tc.curriculumname as "과정이름",  tc.curriculumstart as "과정시작날짜",  tc.curriculumend as "과정종료날짜"  from vwselectinfo vs  inner join tblmemberinfo tmi  on vs.memberinfo\_seq = tmi.memberinfo\_seq  inner join tblcureval te  on te.student\_seq = vs.student\_seq  inner join tblcurriculum tc  on tc.curriculum\_seq = te.curriculum\_seq; | | | |

| 요구사항번호 | D-01(공통) | 작성일 | 2023-04-07 |
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| 요구사항명 | 관리자, 교사, 교육생 로그인 | 작성자 | 연진섭 |
| DML | | | |
| --1. 관리자 로그인  select  admin\_seq as 관리자번호,  memberinfo\_seq as 통합번호,  adminName as 이름,  adminssn as 주민번호,  admintel as 전화번호  from tbladmin  where adminpw = 'abcde1234'; -- 관리자 본인 pw 입력  --2. 교사 로그인  select  teachername as 이름,  teacherssn as 주민번호,  teachertel as 전화번호  from tblteacher  where substr(to\_char(teacherssn),8) = '1106227'; -- 교사 본인 주민등록번호 뒷자리 7자리 입력  --3 교육생 로그인  select  app.applicantName as 이름,  app.applicantssn as 주민번호,  app.applicanttel as 전화번호,  cul.curriculumname as 과정명,  cul.curriculumstart as 과정시작일,  lec.lecture\_seq as 강의실번호  from tblstudent stu  inner join tblselect sel  on stu.select\_seq = sel.select\_seq  inner join tblinterview int  on int.interview\_seq = sel.interview\_seq  inner join tblapplicant app  on app.applicant\_seq = int.applicant\_seq  inner join tblcurriculum cul  on cul.curriculum\_seq = app.curriculum\_seq  inner join tbllecture lec  on lec.curriculum\_seq = cul.curriculum\_seq  where substr(to\_char(app.applicantssn),8) = '1448626'; -- 교육생 본인 주민등록번호 뒷자리 7글자 입력 | | | |