

업무 쿼리문(ANSI-SQL)

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A. 관리자

요구사항번호	A-1	작성일	2026-02-09
요구사항명	전체 수강생 조회	작성자	김민도
<pre> SELECT u.username, u.userstel, c.coursename FROM student s JOIN registered_course rc ON s.registeredcourseseq = rc.registeredcourseseq JOIN users u ON u.usersseq = s.usersseq JOIN course c ON c.courseseq = rc.courseseq WHERE s.studentstatus = '수강중'; </pre>			

요구사항번호	A-1	작성일	2026-02-09
요구사항명	강의 가능 교사 조회	작성자	김민도
<pre> SELECT i.instructorname AS 교사이름, i.instructortel AS 교사전화번호 FROM instructor i JOIN teachable_subject tsu ON i.instructorseq = tsu.instructorseq JOIN subject su ON su.subjectseq = tsu.subjectseq WHERE tsu.subjectseq = (SELECT subjectseq FROM subject WHERE subjecttitle = '자바 기초'); </pre>			

요구사항번호	A-1	작성일	2026-02-09
요구사항명	교사 평가 출력	작성자	김민도
SELECT i.instructorname AS 교사이름 FROM course_instructor ci JOIN teacher_rating tr ON ci.courseinstructorseq = tr.courseinstructorseq JOIN affiliated_instructor ai ON ai.affiliatedinstructorseq = ci.affiliatedinstructorseq JOIN instructor i ON i.instructorseq = ai.instructorseq GROUP BY i.instructorname HAVING round(avg(tr.teacherratingscore), 1) >= 9.0;			

요구사항번호	A-1	작성일	2026-02-09
요구사항명	교사별 강의 가능 과목 출력	작성자	김민도
SELECT i.instructorname AS 교사이름, COUNT(tsu.subjectseq) AS 강의과목수 FROM instructor i JOIN teachable_subject tsu ON tsu.instructorseq = i.instructorseq JOIN subject su ON su.subjectseq = tsu.subjectseq GROUP BY i.instructorname;			

요구사항번호	A-1	작성일	2026-02-09
요구사항명	사물함 배정 현황 조회	작성자	김민도
SELECT pl.personallockerseq AS 사물함번호, u.username AS 학생이름, CASE WHEN l.lockerusestatus = '사용' THEN '사용중' ELSE '배정은 받았으나 미사용' END AS 사용여부 FROM users u JOIN student s ON u.usersseq = s.usersseq JOIN personal_locker pl ON pl.studentseq = s.studentseq JOIN locker l ON l.lockerseq = pl.lockerseq JOIN lecture lec ON lec.lectureseq = l.lectureseq WHERE lec.lectureseq = 1;			

요구사항번호	A-1	작성일	2026-02-09
요구사항명	고장 컴퓨터 조회	작성자	박지명
SELECT c.computerseq AS 컴퓨터번호, cs.computerstatusstate AS 현재상태 FROM computer c INNER JOIN lecture l ON c.lectureseq = l.lectureseq INNER JOIN computer_status cs ON cs.computerstatusseq = c.computerstatusseq WHERE			

```
cs.computerstatusstate IN ( '고장', '수리중' )
AND l.lectureseq = 2;
```

요구사항번호	A-3	작성일	2026-02-09
요구사항명	강의실별 과정 조회	작성자	김민도

```
SELECT
    c.coursename          AS 과정명,
    rc.registeredcoursestartdate AS 시작일,
    rc.registeredcourseenddate  AS 종료일
FROM
    course c
    JOIN registered_course rc ON rc.courseseq = c.courseseq
    JOIN lecture l ON l.lectureseq = rc.lectureseq
WHERE
    l.lectureseq = 1
    AND rc.registeredcoursestatus IN ( '진행중', '진행예정' );
```

요구사항번호	A-3	작성일	2026-02-09
요구사항명	과정별 교재 조회	작성자	박지명

```
SELECT DISTINCT
    b.bookname    AS 교재명,
    b.bookpublisher AS 출판사
FROM
    course co
    INNER JOIN curriculum cu ON co.courseseq = cu.courseseq
    INNER JOIN subject s ON s.subjectseq = cu.subjectseq
    INNER JOIN opened_subject os ON os.subjectseq = s.subjectseq
    INNER JOIN book b ON os.openedsubjectseq = b.openedsubjectseq
WHERE
    os.registeredcourseseq = (
        SELECT
```

```

        MIN(rc.registeredcourseseq)
    FROM
        course c
        INNER JOIN registered_course rc ON c.courseseq = rc.courseseq
        INNER JOIN opened_subject os ON rc.registeredcourseseq =
os.registeredcourseseq
    WHERE
        c.coursename = 'Java 기반 풀스택 개발자 양성 과정'
);

```

요구사항번호	A-3	작성일	2026-02-09
요구사항명	강의 평가 조회	작성자	김민도
SELECT U.userName AS 작성자이름, LR.lectureReviewScore AS 별점, LR.lectureReviewContent AS 평가내용 FROM LECTURE_REVIEW LR JOIN STUDENT S ON S.studentSeq = LR.studentSeq JOIN USERS U ON U.usersSeq = S.usersSeq WHERE LR.lectureReviewContent LIKE '%친절%';			

요구사항번호	A-7	작성일	2026-02-09
요구사항명	특정일 근태 이상자 조회	작성자	황윤재
SELECT u.userName AS 학생이름, c.courseName AS 과정명, at.attendanceTypeState AS 근태상태 FROM attendance a			

```

INNER JOIN attendance_type at ON a.attendanceTypeSeq = at.attendanceTypeSeq
INNER JOIN student s ON a.studentSeq = s.studentSeq
INNER JOIN users u ON s.usersSeq = u.usersSeq
INNER JOIN registered_course rc ON s.registeredCourseSeq = rc.registeredCourseSeq
INNER JOIN course c ON rc.courseSeq = c.courseSeq
WHERE
    a.attendanceDate = TO_DATE('2026-02-02', 'YYYY-MM-DD')
    AND at.attendanceTypeState IN ( '조퇴', '병가' );

```

요구사항번호	A-7	작성일	2026-02-09
요구사항명	근태(조퇴) 통계 조회	작성자	홍대훈
<pre> SELECT us.username AS 학생이름, COUNT(*) AS 조퇴횟수 FROM student st JOIN users us ON us.usersseq = st.usersseq JOIN attendance at ON at.studentseq = st.studentseq JOIN attendance_type att ON att.attendancetypeseq = at.attendancetypeseq WHERE att.attendancetypestate = '조퇴' GROUP BY us.username ORDER BY 조퇴횟수 DESC FETCH FIRST 1 ROWS ONLY; </pre>			

요구사항번호	A-8	작성일	2026-02-09
요구사항명	취업 성공자 조회	작성자	황윤재


```

SELECT
    u.userName          AS 학생이름,
    c.courseName        AS 수료과정명,
    es.employmentStatusDate AS 취업일자
FROM
    student s
    INNER JOIN users      u  ON s.usersSeq = u.usersSeq
    INNER JOIN registered_course rc ON s.registeredCourseSeq
= rc.registeredCourseSeq
    INNER JOIN course      c  ON rc.courseSeq = c.courseSeq
    INNER JOIN employment_status es ON s.studentSeq = es.studentSeq
WHERE
    es.employmentStatusState = '취업성공'
ORDER BY
    es.employmentStatusDate DESC;

```

요구사항번호	A-8	작성일	2026-02-09
요구사항명	미취업자 현황 조회	작성자	황운재

```

SELECT
    u.userName          AS 학생이름,
    rc.registeredCourseEndDate AS 수료일
FROM
    student s
    INNER JOIN users      u  ON s.usersSeq = u.usersSeq
    INNER JOIN registered_course rc ON s.registeredCourseSeq =
rc.registeredCourseSeq
    LEFT OUTER JOIN employment_status es ON s.studentSeq = es.studentSeq
WHERE
    s.studentStatus = '수강완료'
    AND ( es.employmentStatusState = '취업실패'
        OR es.employmentStatusSeq IS NULL )

```

ORDER BY

rc.registeredCourseEndDate;

요구사항번호	A-8	작성일	2026-02-09
요구사항명	과정별 취업 현황 통계	작성자	황윤재

SELECT

c.courseName AS 과정명,
COUNT(s.studentSeq) AS 전체수강인원,
COUNT(
CASE
WHEN es.employmentStatusState = '취업 성공' THEN 1
END
) AS 취업성공인원

FROM

registered_course rc
INNER JOIN course c ON rc.courseSeq = c.courseSeq
INNER JOIN student s ON rc.registeredCourseSeq = s.registeredCourseSeq
LEFT OUTER JOIN employment_status es ON s.studentSeq = es.studentSeq

GROUP BY

c.courseName,
rc.registeredCourseSeq;

요구사항번호	A-9	작성일	2026-02-09
요구사항명	훈련지원금 지급 내역 조회	작성자	황윤재

```

SELECT
    u.userName          AS 학생이름,
    ta.trainingAllowanceAmount AS 지급액,
    ta.trainingAllowancePaydate AS 지급일
FROM
    training_allowance ta
    INNER JOIN student s ON ta.studentSeq = s.studentSeq
    INNER JOIN users u ON s.usersSeq = u.usersSeq
WHERE
    ta.trainingAllowancePaydate BETWEEN TO_DATE('2024-12-01', 'YYYY-MM-DD') AND
    TO_DATE('2024-12-31', 'YYYY-MM-DD');

```

요구사항번호	A-9	작성일	2026-02-09
요구사항명	취업 성공 수당 지급 완료자 조회	작성자	황윤재

```

SELECT
    u.userName          AS 학생이름,
    es.employmentStatusDate AS 취업일,
    esa.employmentSuccessAllowancePayment AS 수당지급일
FROM
    employment_success_allowance esa
    INNER JOIN student s ON esa.studentSeq = s.studentSeq
    INNER JOIN users u ON s.usersSeq = u.usersSeq
    INNER JOIN employment_status es ON s.studentSeq = es.studentSeq
WHERE
    esa.employmentsuccessallowancestate = '지급완료';

```

요구사항번호	A-9	작성일	2026-02-09
요구사항명	취업 성공 수당 미수령자	작성자	황윤재

	명단 조회		
<pre> SELECT u.userName AS 학생이름, u.usersTel AS 전화번호, es.employmentStatusState AS 취업상태, NVL(esa.employmentSuccessAllowanceState, '미신청') AS 수당지급상태 FROM STUDENT s JOIN USERS u ON s.usersSeq = u.usersSeq JOIN EMPLOYMENT_STATUS es ON s.studentSeq = es.studentSeq LEFT JOIN EMPLOYMENT_SUCCESS_ALLOWANCE esa ON s.studentSeq = esa.studentSeq WHERE es.employmentStatusState = '취업성공' AND (esa.employmentSuccessAllowanceState IS NULL -- 1. 신청 기록이 없거나 (미신청) OR esa.employmentSuccessAllowanceState != '지급완료' -- 2. '지급완료'가 아닌 모든 상태 (미지급, 심사중, 반려 등)); </pre>			

B. 교사

요구사항번호	B-2	작성일	2026-02-09
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요구사항명	강의 정보 출력	작성자	김민도
SELECT c.coursename AS 과정명, l.lectureseq AS 배정된강의실호수 FROM affiliated_instructor ai JOIN course_instructor ci ON ai.affiliatedinstructorseq = ci.affiliatedinstructorseq JOIN registered_course rc ON rc.registeredcourseseq = ci.registeredcourseseq JOIN lecture l ON l.lectureseq = rc.lectureseq JOIN course c ON c.courseseq = rc.courseseq WHERE ai.affiliatedinstructorseq = 4 AND rc.registeredcoursestatus = '진행중';			

요구사항번호	B-4	작성일	2026-02-09
요구사항명	최고 성적자 조회	작성자	김민도
SELECT u.username, ts.testgradescore FROM student s JOIN registered_course rc ON s.registeredcourseseq = rc.registeredcourseseq JOIN test_score ts ON ts.studentseq = s.studentseq JOIN opened_subject osu ON osu.registeredcourseseq = rc.registeredcourseseq JOIN subject su ON su.subjectseq = osu.subjectseq JOIN course c ON c.courseseq = rc.courseseq JOIN users u ON u.usersseq = s.usersseq WHERE c.coursename = 'Java 기반 풀스택 개발자 양성 과정' AND su.subjecttitle = 'SQL 활용' AND ts.testgradescore = (

```

SELECT
    MAX(ts.testgradescore)
FROM
    student s
    JOIN registered_course rc ON s.registeredcourseseq = rc.registeredcourseseq
    JOIN test_score ts ON ts.studentseq = s.studentseq
    JOIN opened_subject osu ON osu.registeredcourseseq = rc.registeredcourseseq
    JOIN subject su ON su.subjectseq = osu.subjectseq
    JOIN course c ON c.courseseq = rc.courseseq
WHERE
    c.coursename = 'Java 기반 풀스택 개발자 양성 과정'
    AND su.subjecttitle = 'SQL 활용'
);

```

요구사항번호	B-4	작성일	2026-02-09
요구사항명	학생 성적 조회	작성자	김민도

```

SELECT
    c.coursename AS 과정명,
    s.subjecttitle AS 과목명,
    u.username AS 학생이름,
    ts.testgradescore AS 점수
FROM
    subject s
    INNER JOIN opened_subject os ON s.subjectseq = os.subjectseq
    INNER JOIN test t ON os.openedsubjectseq = t.openedsubjectseq
    INNER JOIN test_score ts ON t.testseq = ts.testseq
    INNER JOIN student st ON st.studentseq = ts.studentseq
    INNER JOIN registered_course rc ON rc.registeredcourseseq = st.registeredcourseseq
    INNER JOIN course c ON c.courseseq = rc.courseseq
    INNER JOIN users u ON u.usersseq = st.usersseq
WHERE
    t.testseq = 7

```

AND ts.testgradescore < 60;

요구사항번호	B-4	작성일	2026-02-09
요구사항명	성적 우수자 조회	작성자	홍태훈
<pre> SELECT us.username AS 학생이름, co.coursename AS 과정이름, ts.testgradescore AS 시험점수 FROM test_score ts JOIN test t ON ts.testseq = t.testseq JOIN opened_subject os ON t.openedsubjectseq = os.openedsubjectseq JOIN registered_course rc ON rc.registeredcourseseq = os.registeredcourseseq JOIN course co ON rc.courseseq = co.courseseq JOIN subject su ON su.subjectseq = os.subjectseq JOIN student st ON st.studentseq = ts.studentseq JOIN users us ON us.usersseq = st.usersseq WHERE su.subjecttitle = '자바 기초' AND ts.testgradescore >= 80; </pre>			

C. 교육생

요구사항번호	C-1	작성일	2026-02-09
요구사항명	사물함 정보 조회	작성자	황윤재

```

SELECT
    l.lockerSeq AS 사물함번호,
    lec.lectureSeq || '강의실' AS 위치
FROM PERSONAL_LOCKER pl
    INNER JOIN LOCKER l ON pl.lockerSeq = l.lockerSeq
    INNER JOIN LECTURE lec ON l.lectureSeq = lec.lectureSeq
WHERE pl.studentSeq = 101
    AND (pl.personalLockerEndDate IS NULL OR pl.personalLockerEndDate > SYSDATE);

```

요구사항번호	C-2	작성일	2026-02-09
요구사항명	교육생 시험 점수 조회	작성자	김민도
<pre> SELECT su.subjecttitle AS 시험이름, ts.testgradeparticipated AS 참여여부, ts.testgradescore AS 점수 FROM student s JOIN test_score ts ON s.studentseq = ts.studentseq JOIN test t ON t.testseq = ts.testseq JOIN opened_subject osu ON osu.openedsubjectseq = t.openedsubjectseq JOIN subject su ON su.subjectseq = osu.subjectseq WHERE s.studentseq = 70 AND ts.testgradeparticipated = '참여'; </pre>			

요구사항번호	C-3	작성일	2026-02-09
요구사항명	교육생 근태 현황 조회	작성자	김민도
<pre> SELECT </pre>			


```
COUNT(decode(at.attendancetypestate, '지각', 1)) AS "지각 횟수",  
COUNT(decode(at.attendancetypestate, '조퇴', 1)) AS "조퇴 횟수"  
FROM  
    student s  
JOIN attendance    a ON s.studentseq = a.studentseq  
JOIN attendance_type at ON at.attendancetypeseq = a.attendancetypeseq  
WHERE  
    s.studentseq = 50;
```