

2021.12.07

5조

김규석 송준영 엄윤섭 윤한빈 이정현 황현우

# 교육 센터 운영 프로그램



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## 제 1장 개발환경

TEAM 5



개발 OS Window10

개발 툴 SQL Developer  
eXERD

사용 언어 Oracle

## 제 2장 요구분석개요

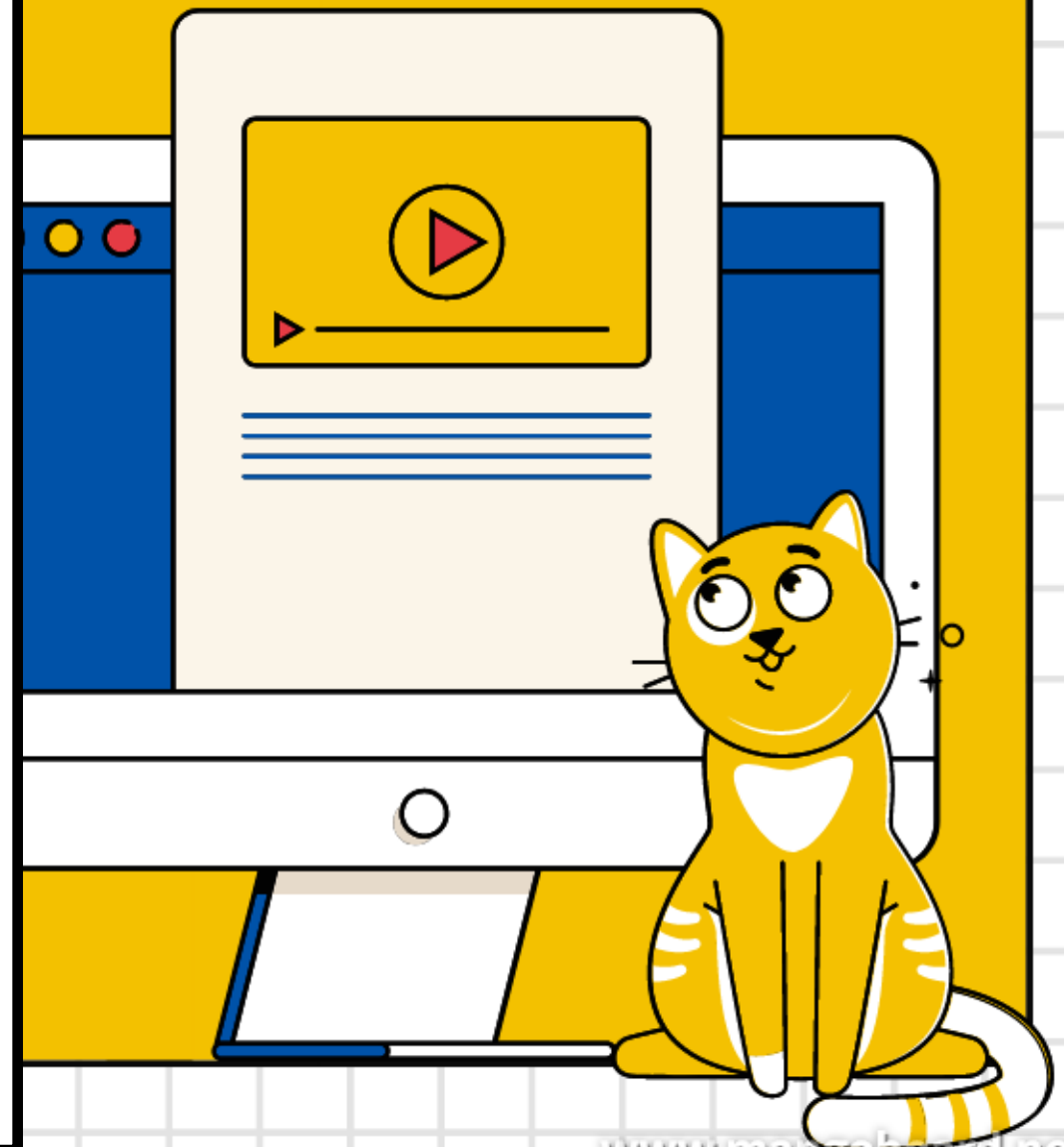
### 중 점

인사 관리 전반을 하나의 플랫폼으로 관리하고,  
교육생의 교육 환경을 개선하는 방향

### 공 통

- ▶ 이용 : 로그인 필수
- ▶ 관리자 : 모든 회원의 정보를 조회 가능
- ▶ 교사 : 수강하는 교육생에 대한 수정
- ▶ 교육생 : 본인에 해당하는 정보를 관리 가능
- 권한 : 관리자 -> 교사 -> 교육생  
상위직급 일수록 더 많은 권한 가짐

SEARCH



## 제 2-1장 요구분석추가

- ▶ 코로나 대면 비대면 조회를 컨트롤 가능
- ▶ 수업 내적인(기술적인) 질문을 담당하는 Q&A게시판을 사용 가능
- ▶ 수업 외적인(행정적, 사적) 질문을 담당하는 상담 게시판을 사용 가능
- ▶ 교육생의 취업현황 및 희망취업에 대해 조회하고 상담에 이용 가능

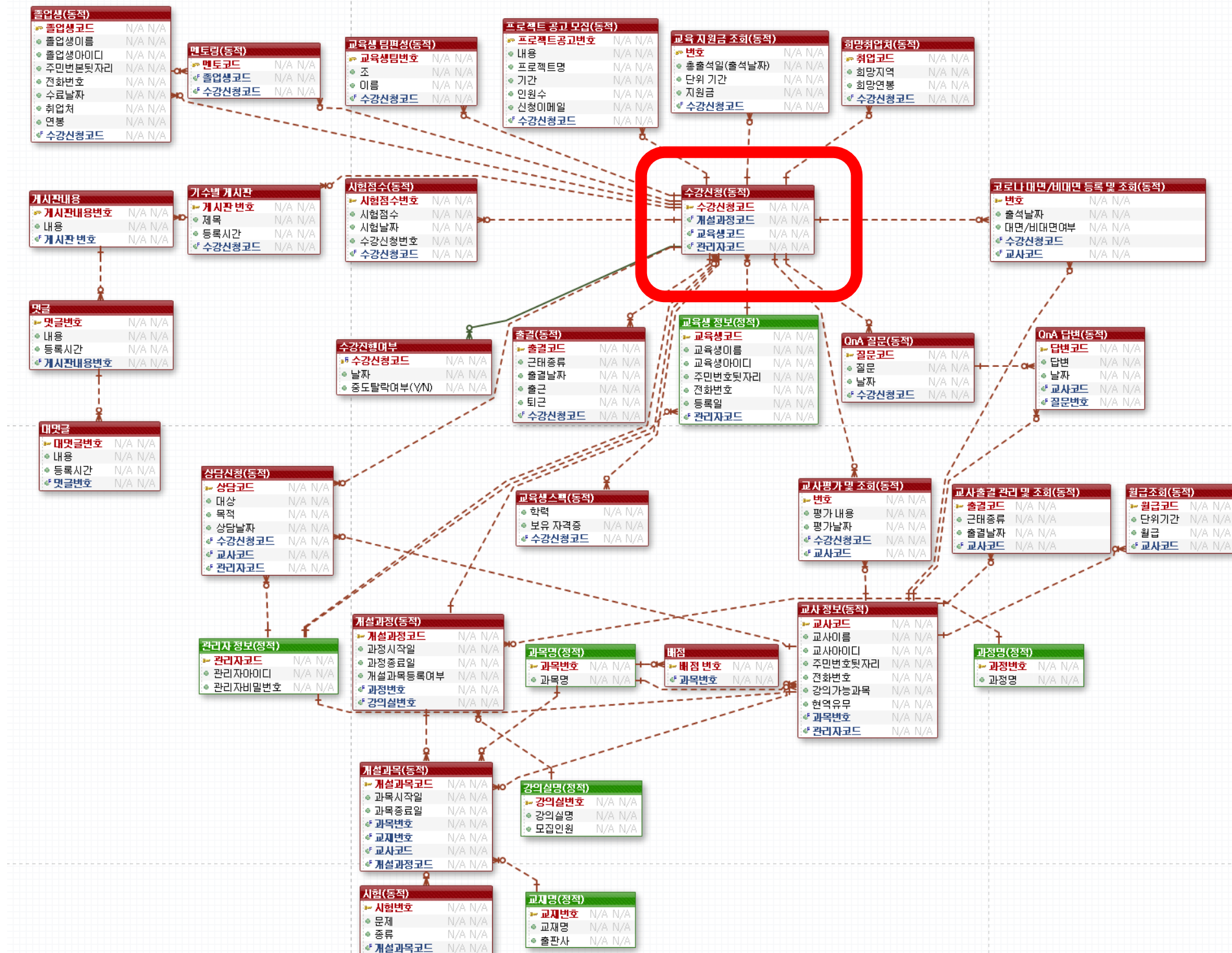
- ▶ 졸업 이후에도 같은 기수끼리 소통할 수 있는 기수 별 게시판을 사용 가능
- ▶ 교육생이 프로젝트를 함께할 사람을 구할 수 있는 게시판을 사용 가능
- ▶ 교육생들을 선택적으로 이끌어줄 멘토링 시스템을 이용할 수 있다.



## 제 3장 ERD



Entity  
Relationship  
Diagram



## 제 4장 SQL



# ● ● SQL(관리자)

B-09. 관리자는 현재 수강중인 과정의 1인당 멘토 1명씩 배정하게 한다.

select

g.student\_seq,  
b.name

from (tblSugang a

inner join tblstudent b on a.student\_seq = b.student\_seq  
inner join tblLClass c on a.lclass\_seq = c.lclass\_seq  
inner join tblclass d on c.class\_seq = d.class\_seq  
inner join tblclassroom e on c.classroom\_seq = e.classroom\_seq)  
inner join tblmentoring g on b.student\_seq = g.student\_seq  
inner join tblgraduate f on g.graduate\_seq = f.graduate\_seq;

select

f.graduate\_seq,  
f.name

from (tblSugang a

inner join tblstudent b on a.student\_seq = b.student\_seq  
inner join tblLClass c on a.lclass\_seq = c.lclass\_seq  
inner join tblclass d on c.class\_seq = d.class\_seq  
inner join tblclassroom e on c.classroom\_seq = e.classroom\_seq)  
inner join tblmentoring g on b.student\_seq = g.student\_seq  
inner join tblgraduate f on g.graduate\_seq = f.graduate\_seq;

# ● ● SQL(관리자)

## B-10. 교육 지원금 및 월급 배부 현황(학생)

```
select
c.name,
e.name,
count(a.attendance_date),
count(a.attendance_date)*13000,
to_char(a.attendance_date, 'YYYY-mm') || '-28'
from tblAttendance a
inner join tblSugang b on a.sugang_seq = b.sugang_seq
inner join tblstudent c on b.student_seq = c.student_seq
inner join tblLClass d on b.lclass_seq = d.lclass_seq
inner join tblclass e on d.class_seq = e.class_seq
inner join tblclassroom f on d.classroom_seq = f.classroom_seq
group by to_char(a.attendance_date, 'YYYY-mm'), c.name, e.name
```



# SQL(교사)

## C-06. Q&A 조회

SELECT

s.name,  
q.question,  
q.questiondate,  
t.name,  
a.answer,  
a.answerdate

FROM tblanswer a

INNER JOIN tblquestion q

ON a.question\_seq = q.question\_seq

INNER JOIN tblTeacher t

ON t.teacher\_seq = a.teacher\_seq

INNER JOIN tblsugang g

ON g.sugang\_seq = q.sugang\_seq

INNER JOIN tblStudent s

ON s.student\_seq = g.student\_seq

WHERE 1=1

AND t.teacher\_seq = (select teacher\_seq from tblteacher where pid = id and jumin = ppw)

AND a.answerdate between to\_date(mstartdate, 'yyyy-mm-dd') AND to\_date(menddate, 'yyyy-mm-dd')

AND s.name like '%' || msname || '%';



# SQL(교사)

## C-08. 월급 조회

SELECT

t.Name,  
s.Period,  
s.Salary

FROM tblsalary s

LEFT JOIN tblTeacher t

ON s.Teacher\_Seq = t.Teacher\_Seq

WHERE 1=1

AND s.Period BETWEEN mstartmonth AND mendmonth

AND t.teacher\_seq = (select teacher\_seq from tblteacher where pid = id  
and jumin = ppw);



# SQL(교사)

## C-10. 교육생 취업관리

```
SELECT
    s.name,
    w.basicpay * 12,
    w.city
FROM tblWishJob w
    LEFT JOIN tblstudent s
        ON w.student_Seq = s.Student_Seq
WHERE 1=1
AND w.city like '%' || mwcity || '%'
AND s.name like '%' || msname || '%';
```



# SQL(교사)

## C-11. 교육생 팀편성

-- 수정

```
UPDATE tblteam set team = 10 WHERE sugang_seq in(3,4,5,6,1,2);
```

-- 삭제

```
delete from tblteam where sugang_seq in(3,4,5,6,1,2);
```

-- 5명 10번팀으로 추가

```
insert into tblTeam VALUES ((select team_seq+1 from(select team_seq  
from tblteam order by team_seq desc) where rownum = 1),10,1);
```

```
insert into tblTeam VALUES ((select team_seq+1 from(select team_seq  
from tblteam order by team_seq desc) where rownum = 1),10,2);
```

```
insert into tblTeam VALUES ((select team_seq+1 from(select team_seq  
from tblteam order by team_seq desc) where rownum = 1),10,3);
```

```
insert into tblTeam VALUES ((select team_seq+1 from(select team_seq  
from tblteam order by team_seq desc) where rownum = 1),10,4);
```

```
insert into tblTeam VALUES ((select team_seq+1 from(select team_seq  
from tblteam order by team_seq desc) where rownum = 1),10,5);
```

# ● ● SQL(교육생)

## D-02. 성적조회

```
select
    stu.name as "이름",
    c.name as "과정명",
    s.name as "과목명",
    ls.start_date as "과목 시작 날짜",
    ls.end_date as "과목 종료 날짜",
    b.name as "책 이름",
    t.name as "선생님 이름",
    test.kind_of as "시험 종류",
    ts.score as "점수",
    (select (select count(distinct attendance_date) from tblattendance where sugang_seq = su.sugang_seq
and absence_type = '정상')/
    (select count(attendance_date) from tblattendance where sugang_seq = su.sugang_seq) * 20
    from dual)as "출석 점수",
    ts.testdate as "시험 날짜",
    test.question as "시험 문제"
from tblstudent stu inner join tblsugang su on stu.student_seq = su.student_seq
    inner join tblclass lc on lc.lclass_seq = su.lclass_seq
    inner join tblclass c on c.class_seq = lc.class_seq
    inner join tblsubject ls on ls.lclass_seq = lc.lclass_seq
    inner join tblsubject s on s.subject_seq = ls.subject_seq
    inner join tblbookname B on b.bookname_seq = ls.bookname_seq
    inner join tblteacher T on t.teacher_seq = ls.teacher_seq
    inner join tbltest test on test.lsubject_seq = ls.lsubject_seq
    left outer join tbltestscore ts on ts.test_seq=test.test_seq and ts.sugang_seq =
su.sugang_seq
    where su.sugang_seq = (select student_seq from tblstudent where id = 'qrs102' and substr(ssn,7) =
'2325740');
```

# ● ● SQL(교육생)

## D-03. 출결

```
select
stu.name,
at.attendance_date,
at.absence_type,
to_char(at.gotowork , 'HH24:mi') as gotowork,
to_char(at.offwork , 'HH24:mi') as offwork
from tblstudent stu inner join tblsugang su on
stu.student_seq =su.student_seq
inner join tblattendance at on at.sugang_seq = su.sugang_seq
where stu.student_seq = (select stu.student_seq from
tblstudent stu where stu.id = 'qrs102' and substr(stu.ssn,7)
= '2325740');
```



# ● ● SQL(교육생)

## D-04. Q&A

```
insert into tblquestion (question_seq,question,sugang_seq)
select
(select question_SEQ from (select question_SEQ from tblquestion
order by question_seq desc) where rownum =1)+1,
'질문이 있어요!!!!!!!!!!!!!!!!!!!!!!',
su.sugang_seq
from tblsugang su
where sugang_seq = (select stu.student_seq from tblstudent stu
where stu.id = 'qrs102' and substr(stu.ssn,7) = '2325740');
```

# ● ● SQL(교육생)

## D-09. 반 등수 조회

```
select
  a.sugang_seq,
  floor(sum(b.score) / 4 * 0.8 / count(distinct c.attendance_date))
  + (select (select count(distinct attendance_date) from tblattendance
where sugang_seq = 1 and absence_type = '정상')/
  (select count(attendance_date) from tblattendance where sugang_seq =
(select student_seq from tblstudent stu
  where id = 'abc007' and substr(stu.ssn,7) = '1115158')) * 20 from
dual) as 연산후점수
  from tblsugang a
  inner join tbltestscore b on a.sugang_seq = b.sugang_seq
  inner join tblattendance c on a.sugang_seq = c.sugang_seq
  group by a.sugang_seq
  having a.sugang_seq between 1 and 6;
```

# 제 5장 시 연

2021.12.07

# THANKS

