```sql
--Talal Khodr Project Final SQL UCLA 2019 FALL 4th Dec
--1
insert into department(
dept_name,
building,
budget)
values(
'Psychology',
'Freud',
10000);


--2
insert into instructor(
ID,
name,
dept_name,
salary)
values(
99999,
'Smaith',
'Psychology',
30000);

--3
insert into classroom(
building,
room_number,
capacity)
values(
'Freud',
123,
100);

--4
insert into course(
course_id,
title,
dept_name,
credits)
values(
'PSY-101',
'Intro. to Psychology',
'Psychology',
3);

--5!
```

```sql
insert into course(
course_id,
title,
dept_name,
credits)
values(
'PSY-102',
'Advanced Psychology',
'Psychology',
3);
insert into prereq(
course_id,
prereq_id)
values(
'PSY-102',
'PSY-101')
--6
insert into student(
ID,
name,
dept_name,
tot_cred)
values(
99999,
'Doe',
'Psychology',
46);

--7

select *
from instructor
Order by ID

--8

select *
from student
order by name

--9
select *
from course,prereq,department
where course.course_id = prereq.course_id
order by course.course_id;
```

```sql
--10
select c.course_id,c.title, p.course_id
from course as c
full outer join prereq as p
on c.course_id = p.course_id
order by c.course_id, p.course_id

--11

select s.ID, s.name, a.ID,a.name
from student as s
full outer join instructor as a
on s.ID = a.ID
order by s.ID, a.ID;


-- 12

select c.building,c.room_number,c.capacity, s.course_id,o.course_id
from classroom as c, course as o
full outer join section as s
on s.course_id = o.course_id
order by c.building,c.room_number;

-- 13

select c.course_id,c.title,c.dept_name,i.name,i.ID
from instructor as i, department as d, section as s
full outer join course as c
on s.course_id = c.course_id
where s.semester = 'Spring' and s.year =2010
order by c.course_id,i.ID

-- 14
select c.course_id,c.title,i.name,i.ID,st.name,st.ID
from instructor as i, department as d, section as s, student as st
full outer join course as c
on st.ID = c.course_id
where s.semester = 'fall' and s.year =2009
order by c.course_id,st.ID

-- 15
select sum(budget)
from department

--16
select sum(salary) as 'total salary',d.dept_name
```

```sql
from instructor as i, department as d
where i.dept_name = d.dept_name
group by d.dept_name


-- 17

select t.course_id,c.title,count(t.ID) as 'enrollment'
from takes as t, course as c
where t.course_id = c.course_id
group by c.title,t.course_id
order by t.course_id


-- 18

alter table instructor
add birthday int
Constraint check_birthday
check (birthday >= 01/01/1990)


-- 19

alter table takes
add constraint [check_grade]
        check ( grade in ( 'A','A+','A-','B','B+','B-','C','C+','C-','F'));


--20
alter table course
add description char(50) not null default 'TBD';


--21
create table chair(

select t.name,d.dept_name
from instructor as t
full outer join department as d
on t.dept_name = d.dept_name


-- 22

update course set credits = credits +1
where course_id like '__-%';



-- 23

select c.course_id,c.title
from instructor as t
```

```sql
full outer join course as c
on t.dept_name = c.dept_name
order by t.salary
-- checking
select * from instructor
order by salary

-- 24
create view current_section as

select
 i.ID,
 i.name,
 c.dept_name,
 c.course_id,
 c.title,
 s.building,
 s.room_number
from instructor i,course c, section s
where s.course_id = s.course_id;

-- 25

create procedure
        enroll
as
select st.ID,t.course_id,t.sec_id,t.semester,t.year
from student as st, takes as t
```