1.

select title,credits  
from course  
where credits>3;  
  
select room\_number,building  
from classroom  
where building='Watson' or building='Packard';  
  
  
select title,dept\_name  
from course  
where dept\_name='Comp. Sci.';  
  
select title , semester  
from course  
inner join section on course.course\_id=section.course\_id  
where semester='Fall';  
  
select name,tot\_cred  
from student  
where tot\_cred>45 and tot\_cred<90;  
  
select name  
from student  
where *right*(name,1)='a' or *right*(name,1)='i' or *right*(name,1)='o' or *right*(name,1)='e' or *right*(name,1)='y' or *right*(name,1)='u';  
  
select title,prereq\_id  
from course  
inner join prereq on course.course\_id=prereq.course\_id  
where prereq\_id='CS-101';

2.

select dept\_name ,*avg*(salary) as average  
from instructor  
group by dept\_name  
order by average;  
  
select building ,*count*(course\_id) as cnt  
from section  
group by building  
order by cnt desc  
limit 1;  
  
select building,*count*(course\_id) as cnt  
from section  
group by building  
order by cnt  
limit 1;  
  
  
select st.id,st.name  
from student as st inner join takes on st.id=takes.id  
where st.dept\_name='Comp. Sci.'  
group by st.id,st.name  
having *count*(course\_id)>3;  
  
select name,dept\_name  
from instructor  
where dept\_name='Biology' or dept\_name='Philosophy' or dept\_name='Music';  
  
  
select name,year  
from instructor inner join teaches on instructor.id=teaches.id  
where year=2018  
and not year=2017;

3.

select name,grade  
from student inner join takes on student.id=takes.id  
where course\_id='CS-101'  
 and (grade='A' or grade='A-')  
group by name,grade  
order by name;  
  
  
select instr.name,takes.grade  
from advisor inner join student as st on st.id=advisor.s\_id  
inner join takes on advisor.s\_id=takes.id  
inner join instructor as instr on advisor.i\_id=instr.id  
where not( grade='A' or grade='A-' or grade='B+' or grade='B')  
group by instr.name,takes.grade;  
  
  
select all dept\_name  
from student  
inner join takes on student.id=takes.id  
where not(grade='F' or grade='C');  
  
  
select all name  
from instructor inner join teaches on instructor.id=teaches.id  
inner join takes on teaches.course\_id=takes.course\_id  
where not grade='A';  
  
  
select course.title,end\_hr  
from section inner join time\_slot on section.time\_slot\_id=time\_slot.time\_slot\_id  
inner join course on course.course\_id=section.course\_id  
where end\_hr <13;