Lab4

select \*

from course

where credits > 3;

select \*

from classroom

where building = 'Packard' or building = 'Watson';

select \*

from course

where dept\_name = 'Comp. Sci.';

select \*

from student

where tot\_cred > 45 and tot\_cred < 90;

select \*

from student

where not name ~ '[^aeiou]$';

select \*

from prereq

where prereq\_id = 'CS-101';

select dept\_name, (sum(salary) / count(dept\_name)) as avg\_salary

from instructor

group by dept\_name

order by avg\_salary;

select building, count(dept\_name) as cnt

from department

group by building

order by cnt desc limit 1;

select dept\_name, count(course\_id) as cnt

from course

group by dept\_name

order by cnt asc limit 1;

select student.id, student.name, count(takes.course\_id)

from student, takes

where student.id = takes.id and takes.course\_id in

(select course\_id from course where dept\_name = 'Comp. Sci.')

group by student.id having count(takes.course\_id) > 3;

select name

from instructor

where dept\_name = 'Biology' or dept\_name = 'Music' or dept\_name = 'Philosophy'

select instructor.id, instructor.name

from instructor, teaches

where instructor.id = teaches.id and teaches.year = 2018

except select instructor.id, instructor.name from instructor, teaches

where instructor.id = teaches.id and teaches.year = 2017;

select distinct student.id, student.name

from student, takes

where student.id = takes.id and takes.course\_id

in (select course\_id from course where dept\_name = 'Comp. Sci.') and takes.grade in ('A', 'A-')

order by student.name;

select distinct instructor.id, instructor.name

from instructor, advisor, takes

where instructor.id = advisor.i\_id and advisor.s\_id = takes.id and takes.grade in ('F', 'D', 'C-', 'C', 'C+', 'B-');

select student.dept\_name

from student

except select student.dept\_name

from student, takes

where student.id = takes.id and takes.grade in ('F', 'C');

select id, name

from instructor

except select instructor.id, instructor.name

from instructor, teaches, takes

where instructor.id = teaches.id and teaches.course\_id = takes.course\_id and teaches.sec\_id = takes.sec\_id

and teaches.semester = takes.semester and teaches.year = takes.year and takes.grade = 'A';

select distinct course.course\_id, course.title

from course, section, time\_slot

where course.course\_id = section.course\_id and section.time\_slot\_id = time\_slot.time\_slot\_id and time\_slot.end\_hr < 13;