Query:

select firstname, lastname, departmentdesc from faculty  
inner join departments on faculty.departmentId = departments.departmentId  
where departmentdesc = 'CSC';

Questions:

* 1. Convert this query to use a SELECT subquery

select firstname, lastname,

(select departmentdesc from departments where faculty.departmentId = departments.departmentId) as departmentdesc

from faculty

where departmentdesc = 'CSC';

* 1. Convert this query to use a FROM subquery

select faculty.firstname, faculty.lastname, department.departmentdesc

from faculty,

(select departmentId, departmentdesc from departments where departmentdesc = 'CSC') as department

where faculty.departmentId = department.departmentId;

* 1. Convert this query to use a WHERE subquery

select firstname, lastname, departmentdesc

from faculty

where departmentId in (select departmentId from departments where departmentdesc = 'CSC');

Query

select classnumber, room, buildingdesc, dayoftheweekdesc from classes  
inner join buildings on buildings.buildingid = classes.buildingid  
inner join dayoftheweek on dayoftheweek.dayoftheweekid = classes.dayoftheweekid  
where dayoftheweekdesc = 'Friday';

Questions:

* 1. Convert this query to use a SELECT subquery

select classnumber, room,

(select buildingdesc from buildings where buildings.buildingid = classes.buildingid) as buildingdesc,

(select dayoftheweekdesc from dayoftheweek where dayoftheweek.dayoftheweekid = classes.dayoftheweekid) as dayoftheweekdesc

from classes

where dayoftheweekdesc = 'Friday';

* 1. Convert this query to use a FROM subquery

select classes.classnumber, classes.room, building.buildingdesc, dayoftheweek.dayoftheweekdesc

from classes,

(select buildingid, buildingdesc from buildings) as building,

(select dayoftheweekid, dayoftheweekdesc from dayoftheweek where dayoftheweekdesc = 'Friday') as dayoftheweek

where building.buildingid = classes.buildingid and dayoftheweek.dayoftheweekid = classes.dayoftheweekid;

* 1. Convert this query to use a WHERE subquery

select classnumber, room, buildingdesc, dayoftheweekdesc

from classes

where buildingid in (select buildingid from buildings) and dayoftheweekid in (select dayoftheweekid from dayoftheweek where dayoftheweekdesc = 'Friday');