1. σdepartment\_name = 'Engineering'(employees)
2. σemp\_id ∈ πmanager\_id(departments
3. employees ⋈ department\_id=department\_id departments

7. σemp\_id ∉ πmanager\_id(departments)(employees)

9. πdepartment\_name, location(departments)

11. σdepartment\_name = 'Sales'(departments) ⋈ manager\_id=emp\_id employees

13. σemp\_id ∉ πemp\_id(projects)(employees)

15. σsalary < 50000 OR salary > 70000(employees)