1. π\_{emp\_id, first\_name, last\_name, salary, department\_id}(employees ⨝\_{employees.department\_id = departments.department\_id} σ\_{department\_name = 'Engineering'}(departments))

2. π\_{first\_name, salary}(employees)

3. π\_{emp\_id, first\_name, last\_name, salary}(employees ⨝\_{employees.emp\_id = departments.manager\_id} departments)

4. σ\_{salary > 60000}(employees)

5. employees ⨝\_{employees.department\_id = departments.department\_id} departments

6. employees × projects

7. π\_{emp\_id, first\_name, last\_name, salary}(employees - (employees ⨝\_{employees.emp\_id = departments.manager\_id} departments))

8. departments ⨝ projects

9. π\_{department\_name, location}(departments)

10. σ\_{budget > 100000}(projects)

11. π\_{emp\_id, first\_name, last\_name, salary}(employees ⨝\_{employees.emp\_id = departments.manager\_id} σ\_{department\_name = 'Sales'}(departments))

12. π\_{emp\_id, first\_name, last\_name, salary}(σ\_{department\_name = 'Engineering'}(departments)) ∪ π\_{emp\_id, first\_name, last\_name, salary}(σ\_{department\_name = 'Finance'}(departments))

13. π\_{emp\_id, first\_name, last\_name, salary}(employees - (employees ⨝\_{employees.emp\_id = projects.emp\_id} projects))

14. employees ⨝\_{employees.emp\_id = projects.emp\_id} projects

15. π\_{emp\_id, first\_name, last\_name, salary}(employees - σ\_{salary >= 50000 and salary <= 70000}(employees))