

b-)  $\Pi_{Fname, Lname} (\sigma_{Dno=8} ((Employee) \bowtie (\sigma_{Essn=SSN} (\sigma_{Hours > 8} ((\sigma_{Pname='DataPrivacy'} (Project)) \bowtie (\sigma_{Pnumber=Pno} (Works-On))))))$

c-)  $\Pi_{Lname, Salary} ((\Pi_{Pno, Essn} (Works-On) / \Pi_{Pnumber} (\sigma_{Dnum=5} (Project))) \bowtie Employee)$

a-)  $\Pi_{Salary, Fname, Address, Bdate} (((\sigma_{Dname='Sales'} (Department)) \bowtie (Dnumber=Dno (Employee))) - ((\sigma_{Dname='Sales'} (Department)) \bowtie (Dnumber=Dno \wedge Bdate < "01/01/1990" (Employee))))$

f-)  $\Pi_{Pno} ((\Pi_{SSN} (\sigma_{Lname='Gursoy'} (Employee))) \bowtie Works-On)$

$\cup \Pi_{Pno} (\Pi_{Dno} (\sigma_{Lname='Gursoy'} (\Pi_{Dno, Lname} (\sigma_{SSN=Mgr-SSN} (Employee \times Department)))) \bowtie Project)$

d-) All employees - The employees working on at least one project = Employees not working on any project.

$\Pi_{Salary, Lname} (Employee \bowtie SSN=Essn ((\Pi_{SSN} (Employee)) - (\Pi_{Essn} (Works-On)))) \bowtie (\Pi_{Lname} (\Pi_{super-SSN} (Employee \bowtie SSN=Essn ((\Pi_{SSN} (Employee)) - (\Pi_{Essn} (Works-On))))))$