a) Houston_Proj (Pno) ← $\pi_{pnumber}$ ($\sigma_{Plocation = \text{"Houston"}}$

(PROJECT))

Houston_Employee (SSN) ← π_{ESSN} (WORKS-ON *

Houston_Proj)

Result ← $\pi_{Fname, Lname}$ (EMPLOYEE *

Houston_Employee)

Fname	Lname
Franklin	Wong
Jennifer	Wallace
James	Borg

b) $Salary\_26000\$ \leftarrow \Pi_{Fname, Lname, ssn}$

$$(\sigma_{Salary > 26000} (EMPLOYEE))$$

$DResearch(Dnum) \leftarrow \Pi_{Dnumber} (\sigma_{Dname = Research}$

$$(DEPARTMENT))$$

$RDPSugarland(Pno) \leftarrow \Pi_{Pnumber} (\sigma_{Plocation = "Sugarland"}$

$$(PROJECT) * DResearch)$$

$Works\_Emp(SSN) \leftarrow \Pi_{ESSN} (WORKS\_ON *$

$$RDPSugarland)$$

$Emp. \leftarrow \Pi_{Fname, Lname, ssn} (EMPLOYEE *$

$$Works\_Emp)$$

$P.$

$Result \leftarrow Salary\_26000\$ \cap Emp.$

Fname	Lname	SSN.
John	Smith	123456789
Franklin	Wong	333445555