

1.) $\pi_{\text{Fname, Lname}} (\sigma_{\text{Dno}=5 \wedge \text{Hours} > 10 \wedge \text{Pno}=1}) (\text{EMPLOYEE} \bowtie_{\text{SSN}=ESSN} \text{WORKS-ON})$

Fname	Lname
John	Smith
Joyce	English

2.) $\pi_{\text{Fname, Lname}} (\text{EMPLOYEE} \div (\pi_{\text{ESSN}} \text{WORKS-ON}))$
 -- Empty

3.) $\pi_{\text{Dname}} (\sigma_{\text{Average Salary}} (\text{EMPLOYEE} \bowtie_{\text{Dname}=Dno} \text{DEPARTMENT}))$

Dname	Average Salary
Reptech	33250
Administration	31000
Headquarters	55000

4.) $\pi_{\text{Fname, Lname}} (\text{EMPLOYEE} - (\text{EMPLOYEE} \bowtie_{\text{ESSN}=ESSN} \text{WORKS-ON}))$

NULL \rightarrow Empty

5. $\pi_{\text{Average Salary}} (\sigma_{\text{Sex}='F'}) \text{EMPLOYEE}$

Average Salary
31000