Question 1 :

*σdepartment*\_*name*=′*Engineering*′​(*employees*⋈*departments*)

Question 2:

*πfirst*\_*name*,*salary*​(*employees*)

Question 3:

*σmanager*\_*idISNOTNULL*​(*employees*)

Question 4:

*σsalary*>60000​(*employees*)

Question 5:

*employees*⋈*departments*

*Question 6:*

*employees*×*projects*

*Question 7:*

*σmanager*\_*idISNULL*​(*employees*)

Question 8:

*departments*⋈*projects*

*Question 9:*

*πdepartment*\_*name*,*location*​(*departments*)

Question 10:

*σbudget*>100000​(*projects*)

Question 11:

*σdepartment*\_*name*=′*Sales*′∧*manager*\_*idISNOTNULL*​(*employees*⋈*departments*)

Question 12:

*πfirst*\_*name*,*salary*​(*σdepartment*\_*name*=′*Engineering*′​(*employees*))∪*πfirst*\_*name*,*salary*​(*σdepartment*\_*name*=′*Finance*′​(*employees*))

Question 13:

*σemp*\_*id*∈/(*employees*⋈*projects*)​(*employees*)

Question 14:

*employees*⋈*projects*

*Question 15:*

*σsalary*<50000∨*salary*>70000​(*employees*)