1. No violations as Pno is a foreign key from project and updating it with in works on effects nothing
2. Delete wont work as is supervisor for Ahmed 987987987 also has dependant rellying on it and works on also department  
   would need to  
   DELETE FROM dependent  
    WHERE essn = 987654321  
   INSERT INTO employee (fname,lname,SSN,Super\_ssn,Dno)  
    VALUES(Alicia,Zelaya,999887777,888665555,4)  
   UPDATE works\_on  
    SET essn = 999887777  
    WHERE essn = 987654321  
   UPDATE department  
    SET Mgr\_ssn = 999887777  
    SET Mgr\_start\_date = (currentdate)  
    WHERE dnumber = 4  
   DELETE FROM employee  
    WHERE ssn = 987654321;
3. A) no violations  
   b) No it would not be logically correct as it is moving project to headquarters department which is in houston yet the project of newbenifits will still be listed as having location as Stafford in project table.
4. Key violation as the dependant\_name is a key in table of dependants it could not be left null.5