Assignment – 1

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1)
   a. Explanation: Supervisor
   It violates the Domain Constraint as the BDATE is date and "Supervisor" is not a date.
   b. Actions:
   Inserting a valid date format or null in BDATE.

   a. Explanation: '333445555'
   the SSN should be a unique number but given number '333445555' already exists in the database on the name of Franklin T wong.
   b. Actions: Change the value of SSN '333445555' that need to be inserted. Or Modify the SSN of existing tuple. As the data already exists.

   a. Explanation: 3
   The value here mentioned is DNo which is related Department number. The value 3 does not exists in DNumber in table given.
   b. Actions: insert a new department number 3 or add the existing department number so that the tuple can be inserted to a value already existing DNumber in DEPARTMENT

2)
   No Constraints are violated.

3)
   a. Explanation: PNAME ='Computerization' has a PNUMBER =10 which is linked to WORKS_ON. These PNUMBER tuple refers to WORKS_ON tuple that being deleted.
   b. Actions: Update the tuples that has PNO=10 in Works_On table to   other project number and then delete

4)
   Nothing is Violated.

5)
   a. Explanation: the key Constrain of SSN is newly updating Tuple which is SSN for already existing member.
   b. action: Change the SSN of newly updating tuple to the number which is not present in the table.

   a. Explanation: It refers to Integrity constraint violations where SSN cannot be updated, and it can be referred to other tables as MGRSSN in DEPARTMENT like a foreign key.
    b. Action: Update of SSN of the tuple in DEPARTMENT that refers to the tuple that is being updated or modify the MGRSSN.

6)
   a. Explanation: it refers to integrity constaint where it violates the ESSN in WORKS_ON which is foreign key that calls to the primary key SSN of EMPLOYEE.
   b. Actions: Updating of SSN by Updating the tuples in WORKS_ON that reference the tuple that is being updated or modify the ESSN.