**CSE370 – Database Systems**

**Assignment 02**

**Spring 2023**

1. Suppose each of the following update operations is applied directly to the below database state. Discuss which integrity constraints were violated by each operation and how you can enforce these constraints to ensure no violation occurs. If an operation does not violate any constraints, briefly explain why.

a) Insert <’1’, 'Houston'> into Department\_Locations table

b) Insert <2, ‘Bellaire’> into Department\_Locations table

c) Insert <null, ‘Sugarland’> into Department\_Locations table

d) Update dno of John B Smith to 4 in Employee table.

e) Update dno of James E Borg to 2 in Employee table.

f) Update pnumber of productX to 20 in the project table.

g) Delete the third record from the project table.

h) Delete the third record from the department table.

i) Delete the column Bdate from the dependent table.

j) Delete the employee Franklin T Wong from the Employee table.



