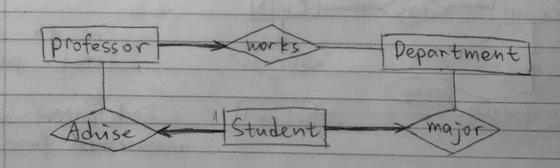
Each parent has to pay for that school.

d) Dependent loops occur when the attribute of a relationship can be found in attribute of the entity. For instance, the email of a parent is already in the of the attributes of parent. The relationship of announcement is not necessary.

-Independent loops occur when there is no redundancy, all attributes in each entity and relationship don't appear twice.

6



- b) Each professor advises exactly one student. Each department has exactly one student. Each department has only one professor works in
- C). Multiple professor work in one department.

 Multiple students major in one department.

d) No-

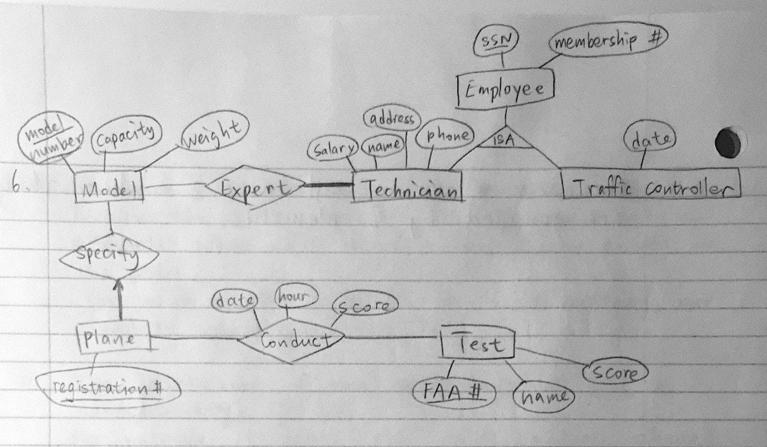
| a). | Same some |
|-----|--|
| | e.g. IWSERT |
| | VALUES (53688, 'smith', 'smith@ee', 18,3.2) |
| | Relation mon't change as tuples are inserted in different orders |
| | LEASURE DE LA CALLE LA COMPANIE DE L |
| | same |
| | e.g. DELETE |
| | FROM Student S |
| | where S. name = 's mith' |
| | |
| 4) | Not the same |
| | e.g. INSERT ('Smith') DELÈTE S. name = 'smith' No smith |
| | DELETE S. Mame = Smith - |
| | PELETE s. name = 'smith' > one smith INSERT ('Smith') |
| | THOSE IC SMITCH |
| 9) | Not the same |
| | Insert something that's tried to update may cause |
| | deadlocks. |
| | |
| | |
| + | |
| e). | Not the same. |
| | The conditions of update operations will change |
| | The conditions of update operations will change because of the change of order. |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| - | |

- 4.0) The union of two candidate keys is NOT a cardidate key Because the union may not be a minimal set of attributes whose value uniquely identify an entity in the set.

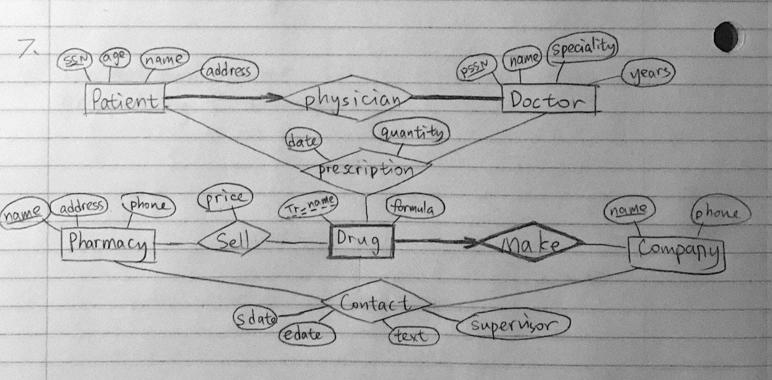
 The union of two condidate keys is a superkey, but could be not a candidate key.
 - The intersection of two super keys is NOT a candidate key.

 For instance, Students (sid, name, address, phone)

 Both (sid, name) and (address phone, name) are superleys. But their intersection (name) is not a candidate key.
- 5. The maximum number is nCz when they are grouped by & elements.



Cannot. It requires a notation for equivalence, but there isn't one.



- 2) Add the price to Drug, delete the price from Sell
- 3) Add a new entity Pres-date because we can't a have date as an attribute of Presciption.