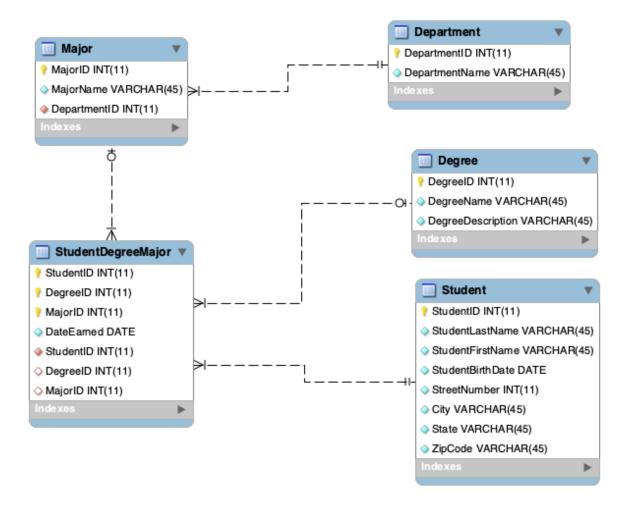
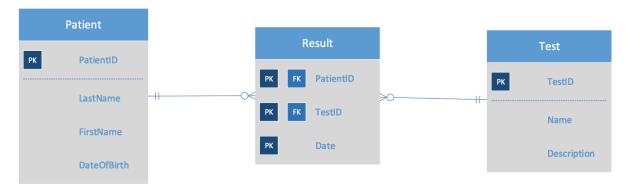
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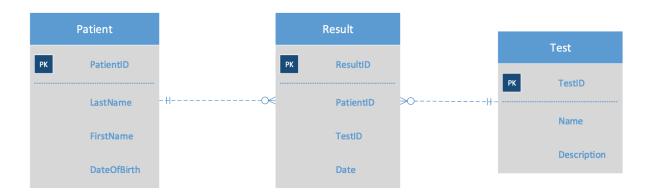
# Part I:



### Part II:



The above design has two identifying relationships for Result. When we change the design to the model below, what else do we need to do to ensure the business rules can still be maintained? Please elaborate.

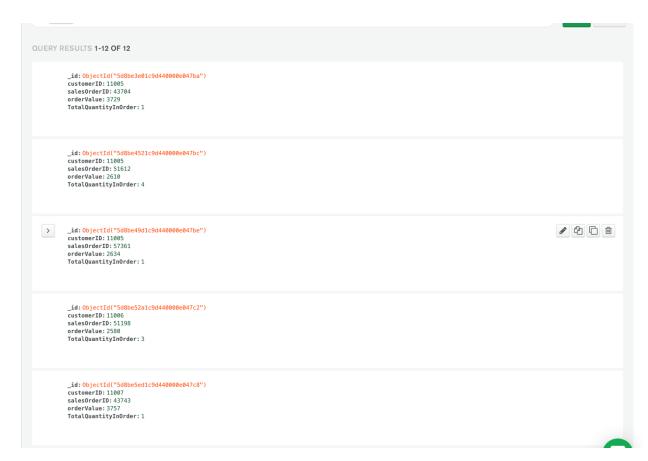


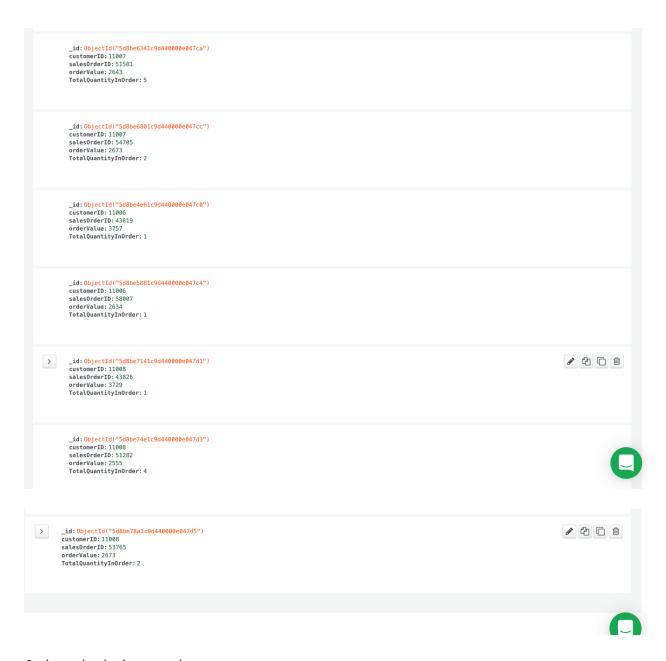
There are three things to do to ensure the business rules can still be maintained.

- We want to make original key attributes mandatory which means when a user updated ResultID in Result entity, PatientID, TestID and Date must be updated as well.
- We need to make referential integrity for the original key attributes, which means when
  a PatientID or TestID are updated we need to make sure those corresponding data in
  Patient entity and Test entity are correct.
- 3. We need to make the combination of original key attributes is unique, for example, we can use a unique index for the combination of the original key attribute.

# Part III:

# Documents:





Code and calculate result:

