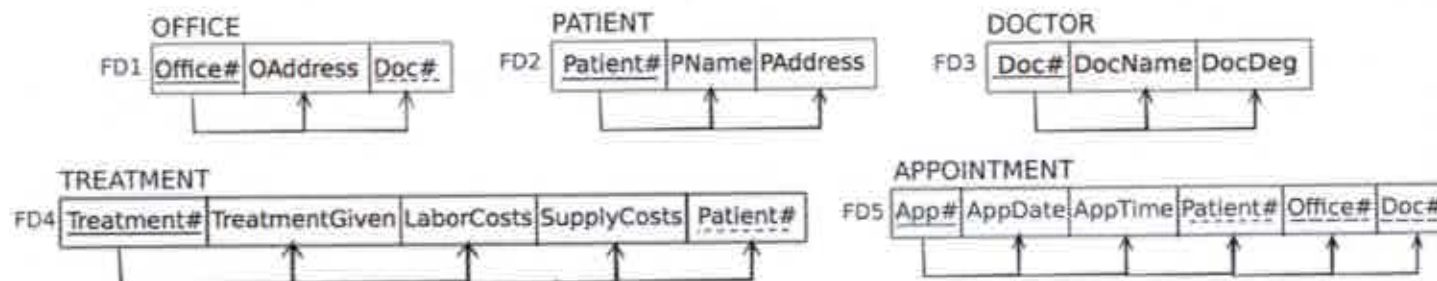
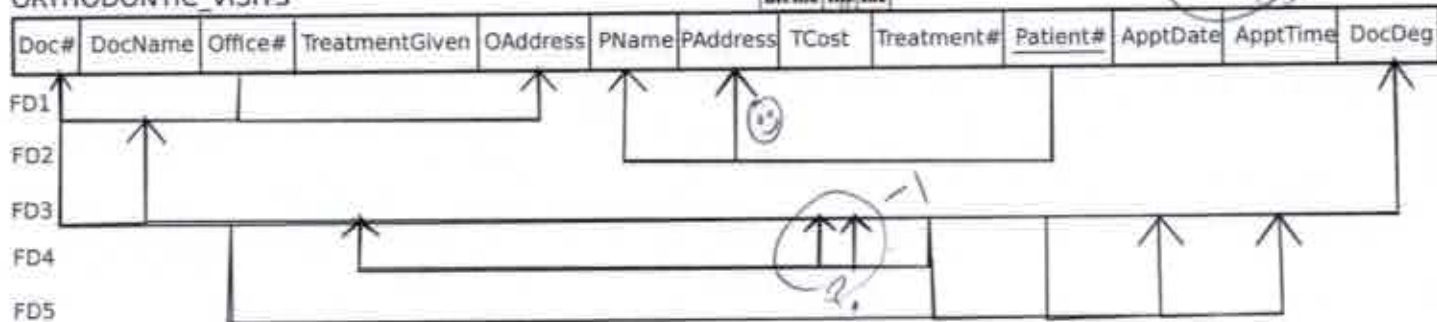


# ORTHODONTIC\_VISITS



1. The form was not in 1NF form because TCost is a composite attribute and 1NF does not allow for this. To fix the problem I took the TCost and divided it into LaborCosts and SupplyCosts.
2. The form was not in 2NF because FD5 did not have a primary key. I made a new primary key called App#, which allows the other attributes to be dependant on App#.
3. The form was not in 3NF because Visit contains data the describes data in another table (TreatmentGiven, TCosts). I fixed this problem by getting rid of Visit and dividing them between the tables TREATMENT and APPOINTMENT. Now the other attributes in these tables depend wholly on the primary key. I had to add a foreign key Patient# to TREATMENT to be able to relate or join the information together when querying data.
4. Patient# would be the primary key for ORTHODONTIC\_VISITS because without a Patient there would be no visiting of an Orthodontist. The patient is the the primary concern.

## Assumptions

1. I assumed that APPOINTMENT should include App# key for a scheduled appointment tracking.
2. I assumed that Patient# is needed in TREATMENT for relating TREATMENT table with other tables.

Did not show 2NF - 3