

Project Phase 2

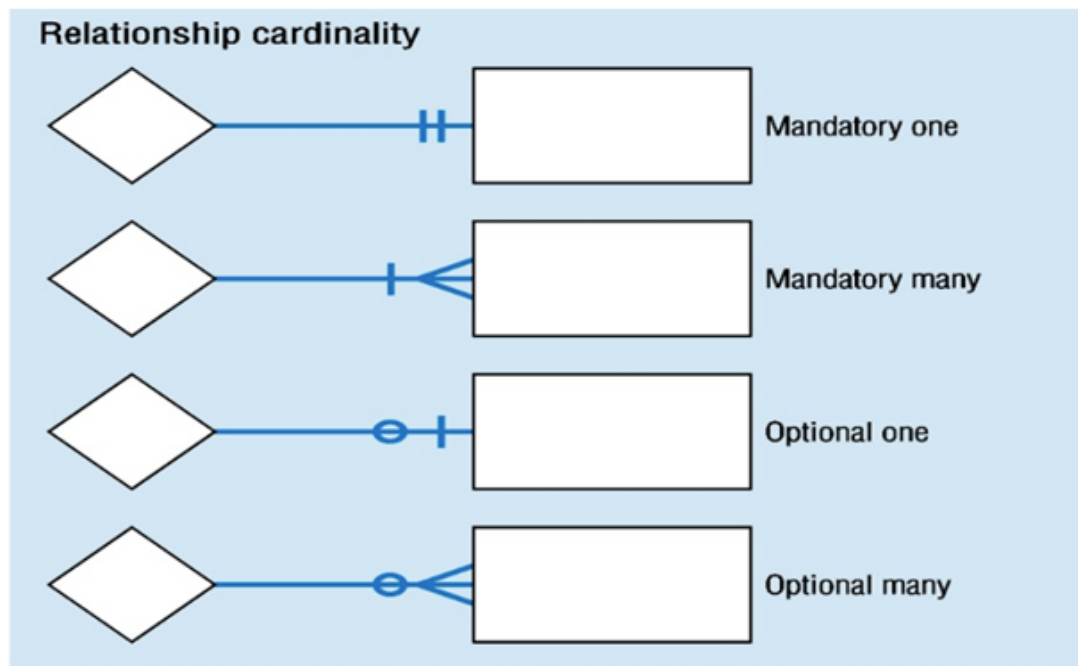
By: too_much_data

Made by:

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Some important points related to our EER diagram:

1. Since it was not feasible to show all the entities, their attributes and the relationships on a single page we have made 2 separate ER diagrams. The first one shows the entities and their attributes and the second shows the entity and the relationships between different entities thus making it better readable.
2. We have used **crow-foot notation** to show cardinality ratio . These are the notations we used.



3. We have also specified the (min, max) to show structural constraints for each participating entity in a relationship. The numbers mean that for each entity e in a relationship E, e must participate in at least min and at most max relationship instances in R at any point in time.
4. Used a triangle to show subclass which is present in er diagram 1 and diagram 2

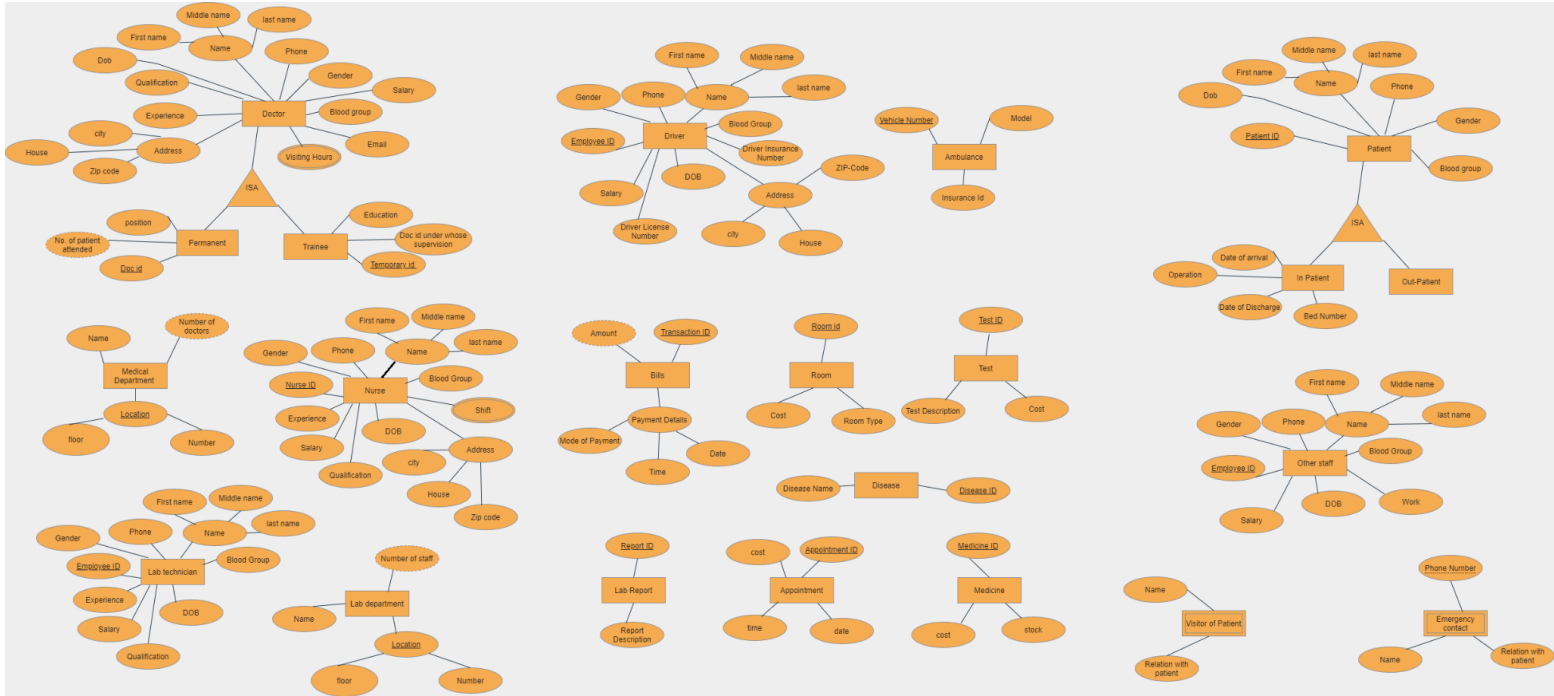


Minor Edits:

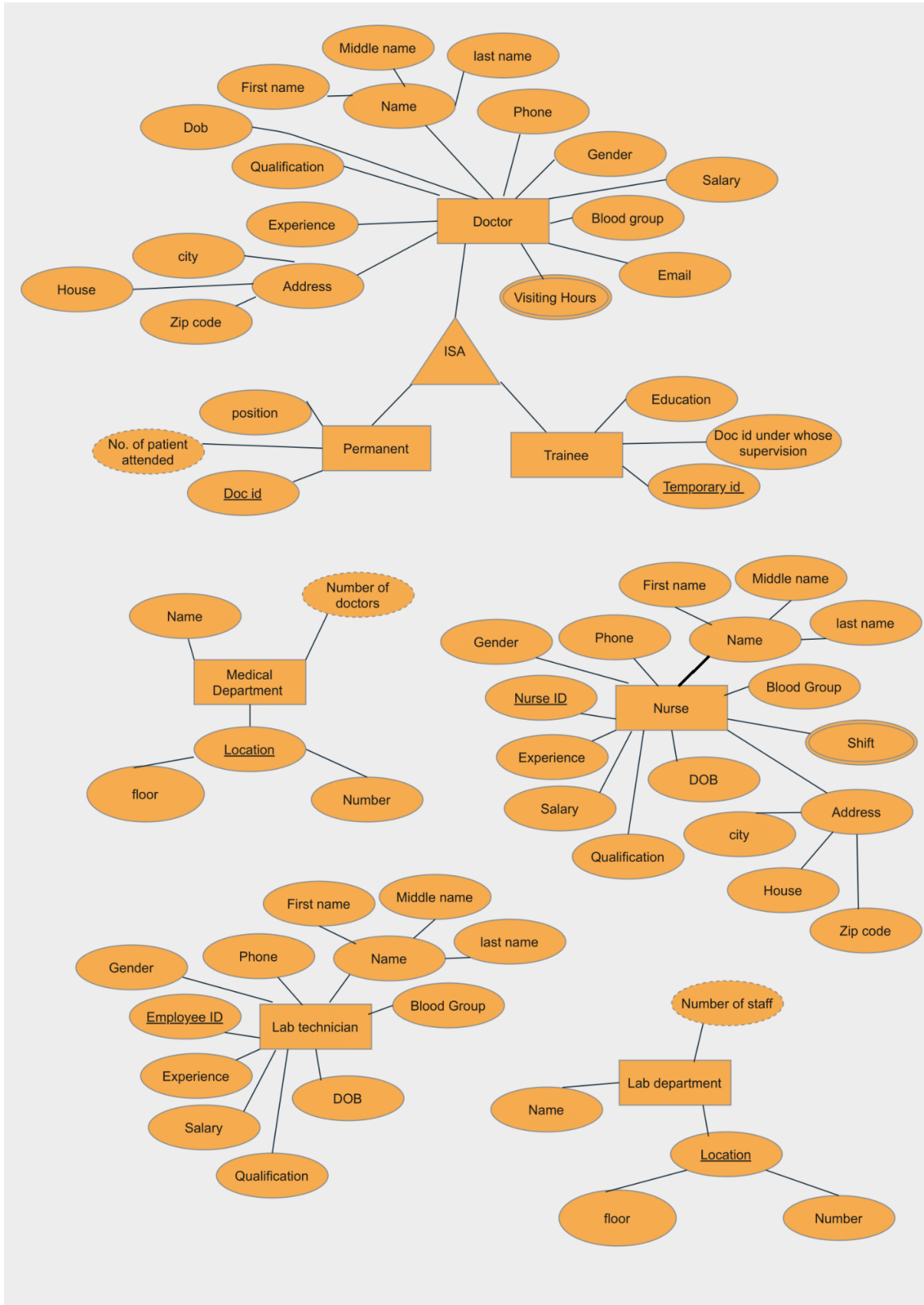
1. In the relationship, the doctor works for the medical department the cardinality relationship should be doctor:medical department = n:1 that is a doctor can work for only 1 department whereas a department will have at least one doctor.
2. In the relationship, the lab technician works for the lab department the cardinality relationship should be lab technician:lab department = n:1 that is a lab technician can work will work for only 1 department whereas a department will have at least one technician.
3. In the relationship stay the cardinality ratio should be:
Room:Inpatient:Nurse = 1:n:m
Explanation:
For a particular patient and a particular nurse, we will have 1 room.
For a particular patient staying in a particular room will be taken care of by at least one nurse
For a particular nurse allotted a particular room will take care of many patients.
4. No need to consider room number in “in-patient” entity it will reduce data redundancy

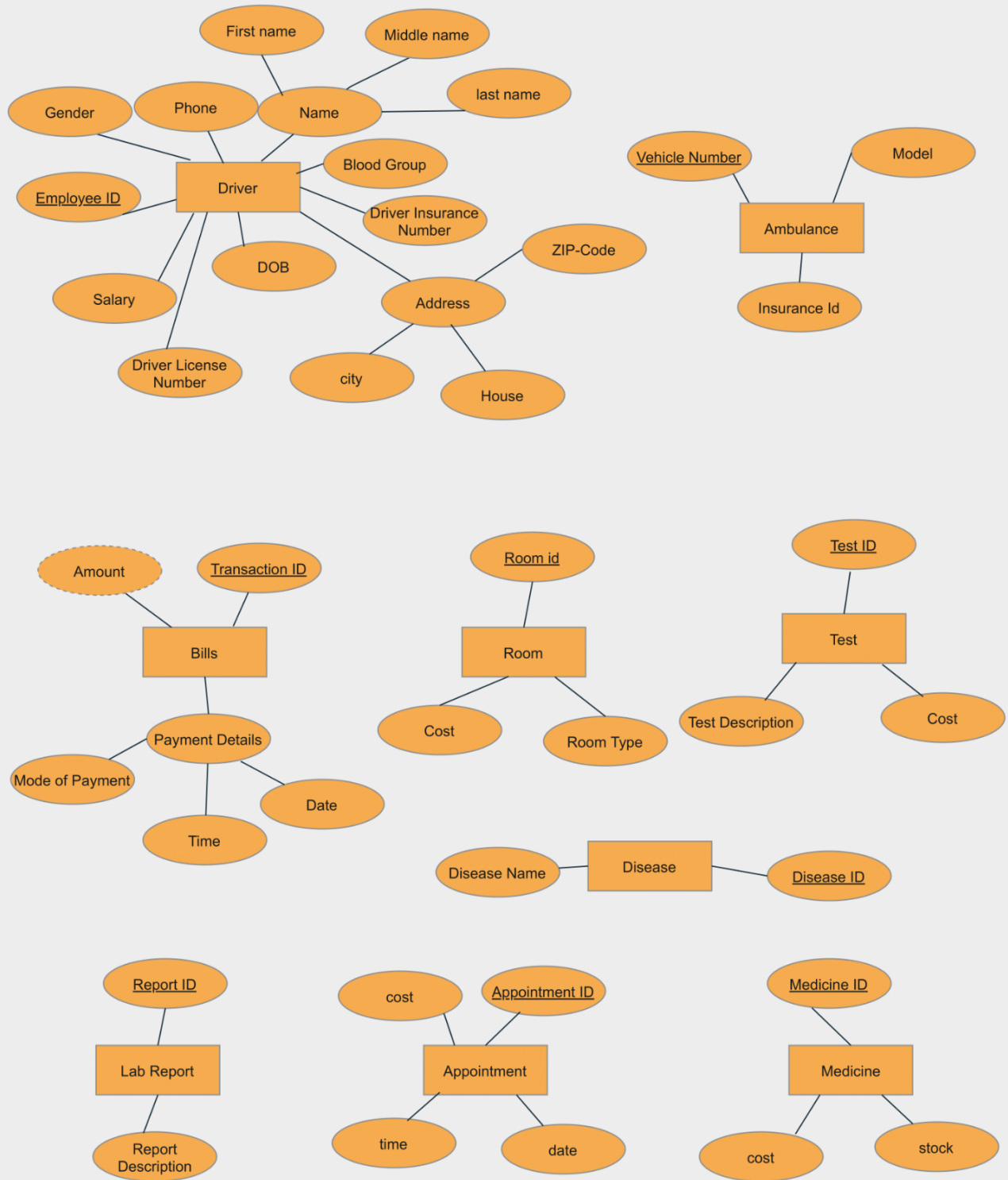
ER DIAGRAM-1

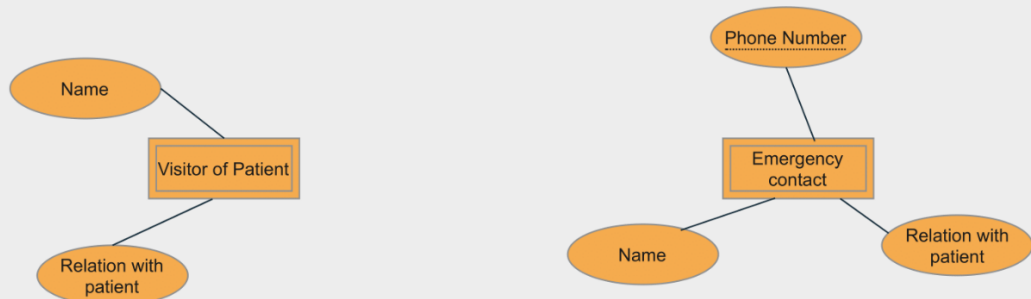
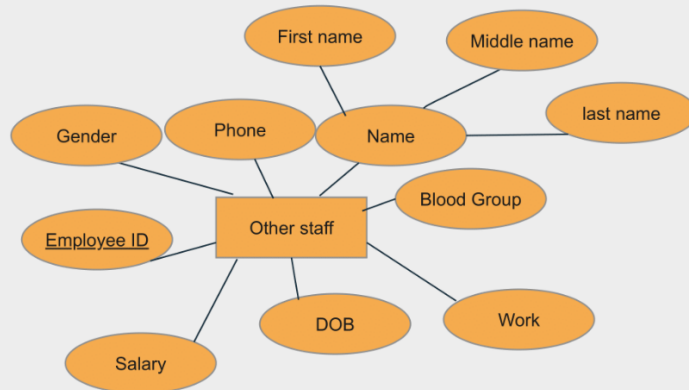
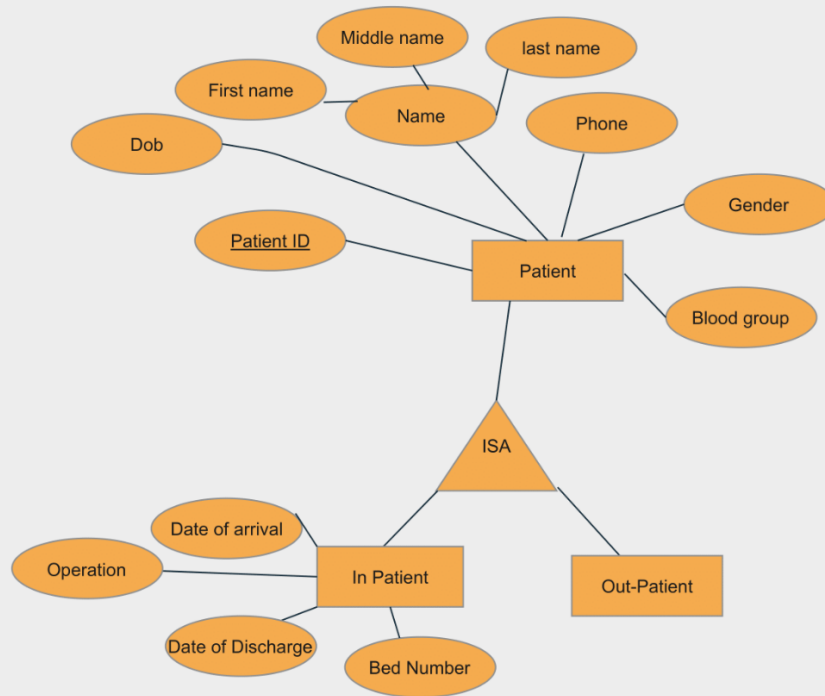
SHOWING ENTITIES AND ATTRIBUTES



ZOOMED IN VERSION:







ER DIAGRAM-2

Containing Entities and their relationships

