

homework 2

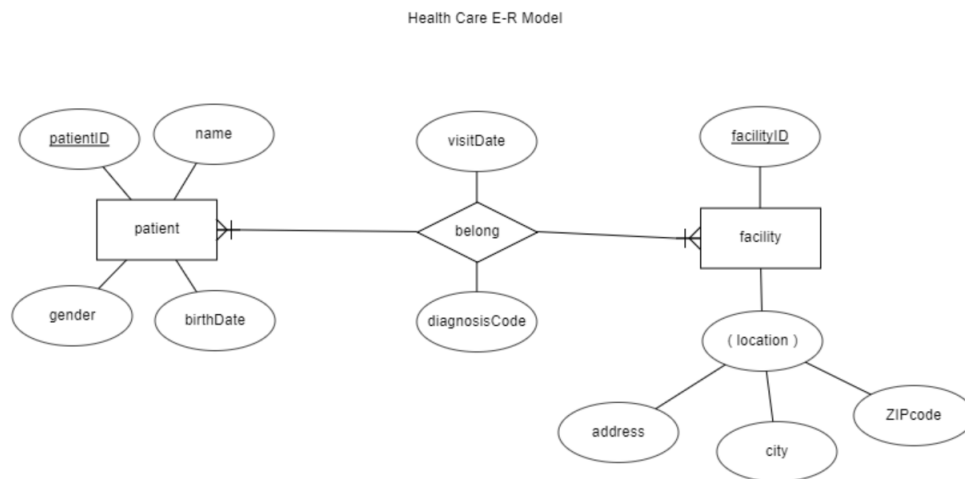
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Task: Given the following requirements from a customer, create an entity-relationship model as described within these elements of test:

The database will keep track of patients at any one of five primary care facilities.

- For each patient, we will keep track of his or her unique patient ID, and his or her name, gender, and birth date.
- For each primary care facility, we will keep track of its unique facility ID and the location (address, city, state ZIP Code).
- Each patient in the database belongs to at least one primary care facility, although patients can visit any or all of the five facilities in the hospital system.
- Each primary care facility in the database has at least one patient belonging to it and can have multiple patients.
- For every instance of a patient belonging to a primary care facility, we will record the patient's visit date and diagnosis code.



- Assumed *visit* and *belong* as same relationship.
- Assumed *diagnosis code* is code for some disease or symptom, thus assumed it is not unique.
- *belong* relationship is a *M-N relationship*, since facility can have at least one patient to multiple and patient can belong to at least one primary care facility to multiple facility.