

CIS552 – COURSE PROJECT

HEALTHCARE INDUSTRY DATABASE

PROPOSAL

Team members:

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Project Scenario:

We plan to create a database summarizing the US Healthcare industry to help maintain and store records of treatments carried out, prescriptions ordered, confidential patient demographics, drug patents, physician visits and many other important information which requires a database to be stored at and get updated securely while following consistency and integrity.

Potential Entities:

1. PATIENT
2. PHYSICIAN
3. HOSPITAL
4. INSURANCE
5. PHARMACY
6. DRUG
7. MANUFACTURER
8. FDA

Potential Relationships:

1. Each PATIENT must visit one or many HOSPITALs while a HOSPITAL may be visited by one or many PATIENTs
2. A PATIENT must consult at least one PHYSICIAN, but a PHYSICIAN may be consulted by one or many PATIENTs
3. A PATIENT must enroll in only one INSURANCE, and an INSURANCE must have one or more PATIENTs
4. A PATIENT must buy drug(s) from a PHARMACY
5. A PHYSICIAN must be employed by a HOSPITAL and a HOSPITAL must have one or more PHYSICIANs
6. A PHYSICIAN may send one or more prescriptions to a PHARMACY, but a PHARMACY must receive at least one prescription from a PHYSICIAN
7. An INSURANCE must pay to one or more PHARMACYs and a PHARMACY must be paid by one or more INSURANCE
8. A DRUG should be stored in one or more PHARMACY and a PHARMACY must store one or more DRUGs
9. A MANUFACTURER must make one or more DRUG, but a DRUG should be made by only one MANUFACTURER
10. The FDA must regulate one or more MANUFACTURERs, but a MANUFACTURER should always be regulated by the FDA