Assi	gn	mer	77-2
,	U.		-

D Comfany Comfany (EmpID, EmpAddr, (Proj ID, Proj Name, Mgr ID)
Mgrname, Hours worked)).

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· OIjor , OIgm3

a)INF

- As we identify all the frimary key & also all the values are atomic it does not liablate INF.

Company (EmpID, Emplane, Emplader, Proj ID, Proj Pame, Magnil D, Magname, Hours worked)

b) 2NF

Employee (EmpID, EmpAddx, Boogration)
Project (ProjID, ProjID, Marne, Magrice).
Company (EmpID, ProjID, Hours worked)

The does not voilate 2NF because all the non-Prime offibrites defends on Primary Key-

C) 3NF. -> for 3NF there are transitive relationships. So, to elliminate it we create a new relations. Company (Emp I), Proj I), Hoursworked). Employee (EmpI), EmpAddy, Pringer) Project (Pro; ID, Pro; Name, Mrg ID). Manager (MryID, Magnage Mighame). Now, It doesn't Violake 3NF. 2) Stock Exchange -Stack Eachange Grombany, Symbol, Ha, Date, Close Price). Primary Key-Symbol & Date ay INF Since, all the Pointary Keys are identified of there are no repeating groups, it doesnot violate 3) ock Exchange (5/mbol, Date, Closefoice) company-info (Symbol, Company, HQ) All the non-Prime attributes are defendent on Primary Key so it does not violate 2NFx

C) 3NF It does not violate 3NF Since there are transitive dependency according to functional defendancy. 37 Property = Proposty Cid, County, LotNum, LotArea, Price, tax Rate, (date Pate date Paid, amount)). Primary Key = Id, date Paid. CY INF Property Cid, lounty, lot Num, Lot Area, Price, tax Rate, date Raid, camount) Here all the values are atomic 4 it also does not violate INF & all the Primary key are identiced. BY 2NF Profesty (id, Date Para) Date (Date Baid, amount) Identity Cid, county, lot Num, Lot Area, Price, tax Rate). All the non-Prime attributes are dependent on Primary Key so it does not Violate 2NF.

21912837 C) 3NF. I) does not violette 3NF as there are transitive relationships. So, we create New relations to climinate them Property (id, Pare Paid Date (Date Paid, amount) Identity (id, wunty, 10+ Area, 10+ Num) Rote (lounty, toxkote) Area (LotArea, Price) Pharmacy = Pharmacy (Patient id, Patient Name, address, (Rx num, trademark - name, generic - name, (Filldak, num - refills-left), Rum-refills) a) INF Primas key-Patient-Id, Bx-num, Filldate Phurmacy (Putient-Tid, Patien)-Name, address, Rx-Dum, trade mark- name, generic-Pame, filldate, num-refills-left, num-refills)

It does not wolute INF because all the Primary-keys have been identical dates all the values are atomic

by 2NF Pharmary (Patient-id, Rx-num, filldate) Patient (Patient-id, Patient-name, address) Medicine-info (Patient-id, Rx-num, trademark-name, generic-name) Refills (Bx-Dum, num-refills) Remaining-refills (RX-num, filldate, num-refills-left) It does not violate 2NF because all the non-Prima affributes are dependent on Primary key. Also, there are no Partion dependency. CY3NE - The relation does not violate 3NF, Since there are no tounsitive relation dependencies, do, we have 5 relations in total