21

Insertion Anamaly:

If we incert a now Hotel, however no new stoff member is himed therefore the NIN cannot be NULL because NIN is PK, therefore we must provide details for NIN and contract NO but is inconstant with our insection. Similarly if we trip

Deletion Anomaly:

If we remove the records of (1024 then it will create an avancely, becase stoffdetalls and hotel Info will also be deleted in our case this would be, John Smith and Diane Hocing. If we remove the staffname Ihm Smith then, the contract No would get affected for other records.

Updatun Anandy:

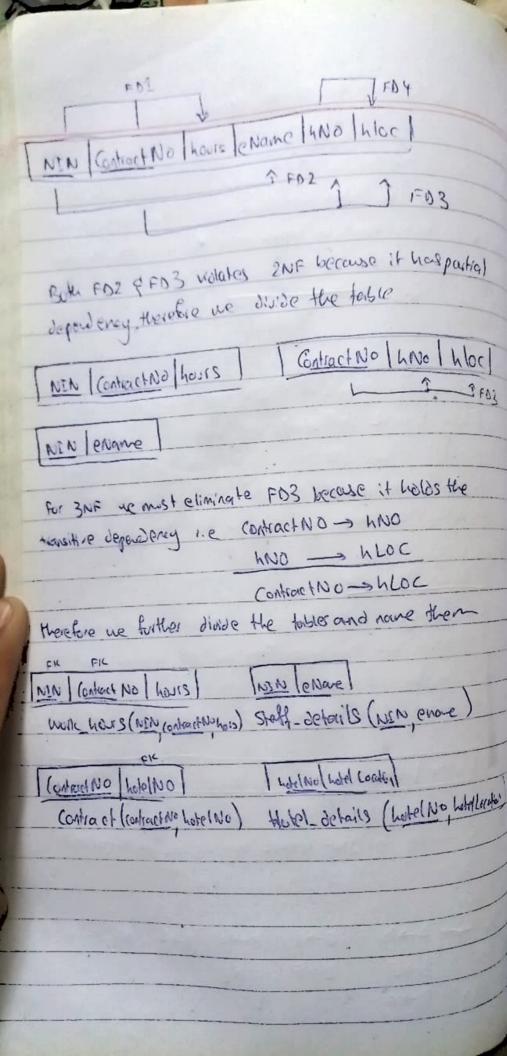
If we change contract No, or hote location, or hotel No or Staff details such as a Nove, then multiple records would have to be changed. Assor I.e. if contract No changes then all occurrers of contract No changes then all

(32 TNIN Transport No I have Je Name I hotel No I hotel brotton

It is already in INF because there are no multi-valued attributes.

FD's:

FOR BOR EDF FOR BOR BOR GHAVEN



latentho > Fullhace new No -> word Name Dry No -> Nave, Dexiption, Dosage, method of Admin.

1. Heat No => Prug No, Start Date -> Units per Day, First Date. JSI NF Patient No Dougho, Start Date, Full Nove, Ward No, used Nie Best No, Nove, Description, Dosage, Methodof Admin, Chits Per Day, Finish Date 2ND NA Patient No, Drug No, Start Date, Usual No, word Nove, Bed No Units Per Day, Finish Date. DrugNo, Nove, Description, Dosage, Method of Admin. Patient No Full Name. Brd NF

Papent No Drug No, Start Dates mad No Bed No Units Per day,

Conish Date

. higher, Nove, Description, Possage, Mether of Admin. latient No, Fill Nove word No was Nove.

Patient No (FE) Drug No (FK), start Inte, Ward No (FK)
Red No, Units Per Day, Finish Date Dugno, Nove, Description, Pauge, Mothers of Admin Patent No, Full Ne Princy leggs are underlined. word No, hard None. 33 Relations with Attributes Student (SSN, Snum, SNOVE, Sc-add, Sc-phone, Sp-add; 31-phoe, Bdate, Sex, Class, Major Code, Minor-code, Proof) reported (Driene, Dode, Doblice, Distane, Dicollege) Cause (none, coesc, Cour, Credit, level, Coopt) Section (Trave, somester, Year, sec-Corre, soc-nor) (made (SSN, Severtic, Sec-Coure, Sec Num, Grade) FO's FOL: Snum -> snue, Sc_add, Sc_phone, Sp-add, Sp-plat, Barle_sex, (lass, Meyor-code, Minor-code, Prog

FD2: - SSN -> Share, Sc-add1, Sc-phone, Sp-add1, sp-phone,
Botate, Sex, Class, Major-code, Minor-coreprise PA: 2 BSN, SNUM but not both? Department. FOI: Drae -> Doffice, Pphone, Ocollege FOZ: Dode > Doffice Dephone, Duolley FD3: Doffice -> Ophone FDY: Deallege -> Dollike PA= { DNOVES, ID codes hat not both (ourse + DI = (Num > (Neve, Colex, Colept, Credit, Level PNE (NUNS Section FD2: Sec-Num, Sec-course, senester-3 Inde PA= \$ sec-non, sec-rouse, severter) Grade. FO1: Sec_non, SSM Sevester_Sec_course -> Grade PA = { sec_lum, SEN, Serester, sec_(ourse).

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34 Manalized. 3NF Wangli	eed.
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