Mormalisation.

Nome: K. Sai Ganesh.

Rollno: 19605055.

An) The table is not in INF, because the attribu

for eg! IO-1 Courses - "os, OBMB". So as it is not in INF, it Cont be in 2NF?

305.

1: joing

Converted toble

10 Name Age Location Courses Sachin 22 Ochi 05 Sachin BUBO Ochi 22 Ram PAG 22 Janshatpur Rom Jam shedpur OBMS 22 mike 3 23 channer ML 3 05 mike 23 chennal Bangalore DAA 4 Sameex Bangalore ML Sances 4 21 MIL Mumbai 22 Vijay 5 2mBQ Mumbai

The above table is in INF.

Prime attributes -> IO 4 Manne Mon-Prime -> Age, Location, Courses

\* The Second toble mentioned in the question is in mif.

inute of airest 1 a) This is not in 2ndre, because it is not fully functionality independent as Empto - Nome, Age. EmpJO, Outyshift\_IO -> Outy-shift \* Primary keys - EmpIO \* Candidate - Emp-ID, Nome, Age \* Prime - Emp-IO, Name, Age \* Non-Prime - Outy-Shift-ID, Outy-Shift. Converted table. i, Emp-IO I Name Age 26 28, 32/1 24 Sita 104 Emp-70 Outy-Shift-TO Outy-Shift (1) vorning. 104

b) This table is not in 2MF because it is not fully functionally independent as

Emp-ID, Project-10 -> Project-Nome,
Proj-Name, No-Of-houses

* Primory key - Emp-IO
* Condidate key - Emp_IO, Project_IO
* Prime attributes - Emp. IO, Project-IO.
* Non-Prime - are a classe for the see
* Non-Prime - name, Proj-Nome, No-of-houses
Converted table.
Emp-IO   Name
Ajay
521 chanu
765 Rojesh
Abhishek
g - Compression Andrews Sign
Emp-IO   Project-IO   Proj-Name NO-Of-houses
123 Pri-21 Speech System 10
321 Prj-45 HR System 15
765 Pri-11 Automorte 23 Frickets 16
MLR
9. 7 Å 1. 122 og 1 *
3) as not in 300F, theire exists transitive
dependency between fourt-address } q
{cust-loc} on a non-Primary key
which is of cust-Postcodely
3NF would be
Cust-ID   Cust-Morne Cust-Postcode
25 Ocll 560037
45 Janous 56,0046
89 accs 210067
90 Sam Sung   4500078

fout-103 -> Primory key of of it are Cust - Postcode | Cust - Address Cust - loc 5 60037 Bangalore whitefield 5600 46 Marathaballi Bungalore 210067 Bandra Munpai 4500078 Ocihi Central Delhi {cust-Postcode} - Primary Key b) Here, there exists transitive dependency. So, it is not in 3NF { Contractor } -> fee There should be no transitive dependency in 3MF (Building } -> Primary Key. {contractor, Builder, Fee? - Non-prime attributes 3NF would be Building Contractor Builder 3-2156 Taylor Prestige Sandeep 3-8765 Hiranandani vishaka B-4567 Tata Primony key - (Contractor, Fee) Contractor Fec. Taylor 2567891 3567356 Sandrep 4567990 vishaka