CS262

LAB ASSIGNMENT 7

Hostel Managment System

TA: Mr. Atul Sharma

GROUP 4

TEAM MEMBERS:

KAMLESH KUMAR : 202051099

KANANI DARPAN ASHOKBHAI : 202051100

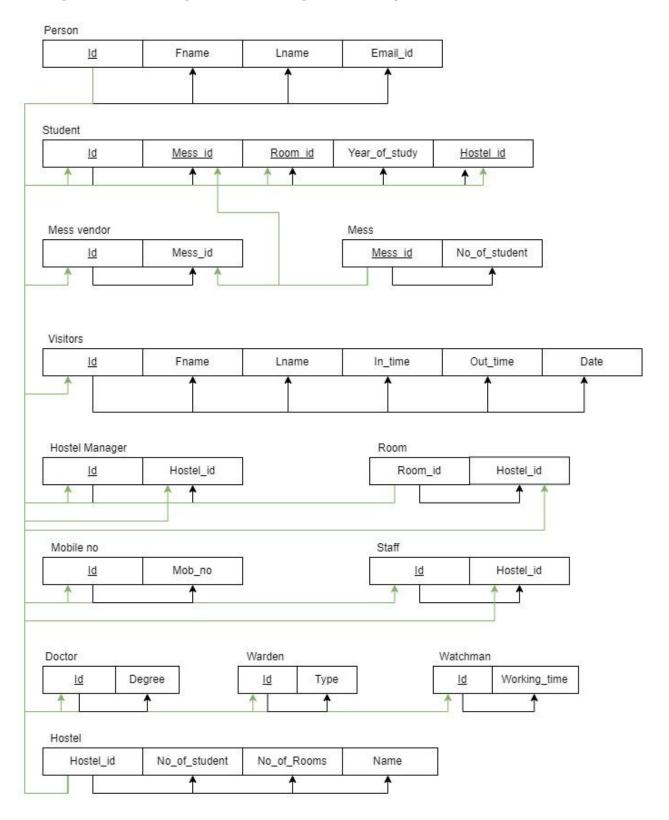
KOMMULA CHIRANJEEVI SAGAR : 202051103

LINGAREDDY SAI CHARAN PREET REDDY : 202051111

RUSHIKESH JADHAV : 202051164

TASK 1

1- Design the functional dependencies holding in the existing relational model.



TASK 2:

For Student table

1NF:- None of the attributes are multivalued so the table is in 1NF form.

2NF:- Here we are getting partial dependency as HOSTEL_ID can be determined by both USER_ID and ROOM_ID. As {USER_ID, ROOM_ID -> HOSTEL_ID}.

So we remove HOSTEL_ID from Student as we can also get it from the Room table.

3NF:- Table satisfies 2NF and has no Transitive dependencies so it is in 3NF.

BCNF:- Table satisfies 3NF and LHS is super key so it is in BCNF.

Table PERSON, HOSTEL, MESS, ROOM, MOBILENO, MESSVENDOR, HOSTELMANAGER, STAFF, VISITOR, DOCTOR, WARDEN, WATCHMAN already satisfy all the conditions for BCNF.

<u>Task 3:</u>

