Has(Emp\_id,Emp name,role,salary,address,phone\_num,hostel name,hostel\_id,address,num of rooms,num of students)

1 NF: Phone\_Num Multivalued attribute

2NF:Emp id,Emp name,role,salary,address,phone\_num

Hostel\_name,Hostel\_id,address,num of rooms,num of students

EH\_id,Emp\_id,Hostel\_id

3NF: Emp\_id,Emp name, role,salary,address,phone\_num

Hostel\_name,Hostel-id,address,num of rooms,num of students

EH\_id,Emp id,Hostel-id

No transitive dependency

Table:

1. Emp id, Emp name, role,salary,address,phone\_num
2. Hostel-id,Hostel-name,address,num of rooms,num of students
3. EH\_id,Emp\_id,Hostel\_id

MANAGES(\_Admin ID,Admin name,address,phone\_num,Hostel\_id,Hostel name,address,num of rooms,num of students)

1NF : Phone\_num multivalued attribute

2NF : Admin\_id, Admin name,address,phone\_num

Hostel\_id,Hostel-name,num of rooms,num of students,Admin\_id

3NF: Admin\_id,Admin name,address,phone\_num

Hostelid,Hostel-name,num of rooms,num of students,Admin\_id

No transtive dependency

Table:

1. Admin\_id,Admin name,address,phone\_num
2. Hostel\_id,Hostel-name,num of rooms,num of students,Admin\_id

ISSUES(Hostel\_id,Hostel name,address,num of students,num of rooms,Payment\_id,payment type,date,total bill)

1 NF:No multivalued attribute

2 NF: Hostel\_id,Hostel name,address,num of students,num of rooms

Payment\_id,payment type,date,total bill

HP\_id,Hostel\_id,Payment\_id

3 NF : Hostel\_id,Hostel name,address,num of students,num of rooms

Payment\_id,payment type,date,total bill

HP\_id,Hostel\_id,Payment\_id

No transtive dependency

Table:

1. Hoste\_ld,Hostel name,address,num of students,num of rooms,
2. Payment-id,payment type,date,total bill
3. HP\_id,Hostel\_id,Payment\_id

PAYS(std \_id,std name,phone\_num,DOB,address,Dept name,age,Payment\_id,payment type,date,total bill)

1 NF: Phone\_num multivalued attribute

2 NF: std\_id,std name,phone\_num,DOB,address,Dept name,age

Payment\_id,payment type,date,total bill,std\_id

3 NF: std\_id,std name,phone\_num,,address,Dept name,DA\_id

Payment\_id,payment type,date,total bill

DA\_id,DOB,age

Table :

1. std\_id,std name,phone\_num,,address,Dept name,DA\_id
2. Payment\_id,payment type,date,total bill
3. DA\_id,DOB,age

HAS(Hostel\_id,Hostel name,address,num of students,num of rooms, std \_d,std name,phone\_num,DOB,address,Dept name,age)

1 NF: Phone\_num multivalued attribute

2 NF: Hostel\_id,Hostel name,address,num of students,num of rooms,

std \_id,std name,phone\_num,DOB,address,Dept name,age,hostel\_id

3 NF:Hostel\_d,Hostel name,address,num of students,num of rooms,

std \_id,std name,phone\_num,address,Dept name,hostel\_id,DA\_id

DA\_id ,DOB,age

TABLE :

1. Hostel\_d,Hostel name,address,num of students,num of rooms,
2. std \_id,std name,phone\_num,address,Dept name,hostel\_id,DA\_id
3. DA\_id ,DOB,age

STAYS(room\_id,room type,capacity,room status, std\_id,std name,phone\_num,DOB,address,Dept name,age)

1 NF :Phone\_num multivalued attribute

2 NF : room\_id,room type,capacity,room status,

Std\_id,std name,phone\_num,DOB,address,Dept name,age,room \_id

3 NF : room\_id,room type,CR\_id

std \_id,std name,phone\_num,address,Dept name,room\_id,DA\_id

DA\_id,DOB,age

CR\_id,capacity,room status

Table :

1. room\_id,room type,CR\_id
2. std \_id,std name,phone\_num,address,Dept name,room\_id,DA\_id
3. DA\_id,DOB,age
4. CR\_id,capacity,room status

HAS(Hostel\_id,Hostel\_name,address,num of students,num of rooms, room\_id,room type,capacity,room status)

1 NF :No multivalued attribute

2 NF : Hostel\_id,Hostel\_name,address,num of students,num of rooms

room\_id,room type,capacity,room status,Hostel\_id

3 NF : Hostel\_id,Hostel\_name,address,num of students,num of rooms

room\_id,room typeHostel\_id,CR\_id

CR\_id,capacity ,room status

Table :

1. Hostel\_id,Hostel\_name,address,num of students,num of rooms
2. room\_id,room typeHostel\_id,CR\_id
3. CR\_id,capacity ,room status

VISITS(Visitor\_id,visitor name,address,date,phone-num,in time,out time, std\_id,std name,phone\_num,DOB,address,Dept name,age)

1 NF :Phone \_num multivaled attribute

2 NF : Visitor\_id,visitor name,address,date,phone\_num,in time,out time,

Std\_id,std name,phone\_num,DOB,address,Dept name,age,visitor\_id

3 NF : Visitor\_id,visitor name,address,date,phone\_num,in time,out time,

­ Std\_id,std name,phone\_num,address,Dept name,visitor\_id,DA\_id

DA\_id,DOB,age

Table :

1. Visitor\_id,visitor name,address,date,phone\_num,in time,out time,
2. ­Std\_id,std name,phone\_num,address,Dept name,visitor\_id,DA\_id
3. DA\_id,DOB,age

HAS(room\_id,room type,capacity,room status,furniture\_id,furniture\_name)

1 NF : No multivalued attribute

2 NF : room\_id,room type,capacity,room status,

furniture\_id,furniture\_name,Room\_id

3 NF : room\_id,room type,CR\_id,

furniture\_id,furniture\_name,Room\_id

CR-id,capacity,room status

Table :

1. room\_id,room type,CR\_id,
2. furniture\_id,furniture\_name,Room\_id
3. CR-id,capacity,room status

RESPONSE(Admin\_id,Admin name,address,phone\_num,complain\_id,complain date,details)

1 NF :Phone\_num multivalued attribute

2 NF : Admin\_id,Admin name,address,phone\_num

complain\_id,complain date,details

AC\_id,admin\_id,complain\_id

3 NF : Admin\_id,Admin name,address,phone\_num,

complain\_id,complain date,details

AC\_id,admin\_id,complain\_id

No transitive dependency

Table :

1. Admin\_id,Admin name,address,phone\_num,
2. complain\_id,complain date,details
3. AC\_id,admin\_id,complain\_id

Complains(std\_id,std name,phone\_num,DOB,address,Dept name,age, complain\_id,complain date,details)

1 NF :Phone\_num multivalued attribute

2 NF : std\_id,std name,phone-num,DOB,address,Dept name,age

complain\_id,complain date,details

SC-id,std\_id,complain\_id

3 NF : std\_id,std name,phone\_num,address,Dept name,DA\_id

complain\_id,complain date,details

SC\_id,std\_id,complain\_id

DA\_id,DOB,age

Table :

1. std\_id,std name,phone\_num,address,Dept name,DA\_id
2. complain\_id,complain date,details
3. SC\_id,std\_id,complain\_id
4. DA\_id,DOB,age

Total Table :

1. Emp id, Emp name, role,salary,address,phone\_num
2. Hostel-id,Hostel-name,address,num of rooms,num of students(\*)
3. EH\_id,Emp\_id,Hostel\_id
4. Admin\_id,Admin name,address,phone\_num
5. Hostel\_id,Hostel-name,num of rooms,num of students,Admin\_id
6. Hoste\_ld,Hostel name,address,num of students,num of rooms(\*)
7. Payment-id,payment type,date,total bill
8. HP\_id,Hostel\_id,Payment\_id
9. std\_id,std name,phone\_num,,address,Dept name,DA\_id
10. Payment\_id,payment type,date,total bill(\*)
11. DA\_id,DOB,age1
12. Hostel\_d,Hostel name,address,num of students,num of rooms(\*)
13. std \_id,std name,phone\_num,address,Dept name,hostel\_id,DA\_id
14. DA\_id ,DOB,age(\*)
15. room\_id,room type,CR\_id(\*)
16. std \_id,std name,phone\_num,address,Dept name,room\_id,DA\_id
17. DA\_id,DOB,age(\*)
18. CR\_id,capacity,room status(\*)
19. Hostel\_id,Hostel\_name,address,num of students,num of rooms(\*)
20. room\_id,room typeHostel\_id,CR\_id
21. CR\_id,capacity ,room status
22. Visitor\_id,visitor name,address,date,phone\_num,in time,out time
23. ­Std\_id,std name,phone\_num,address,Dept name,visitor\_id,DA\_id(\*)
24. DA\_id,DOB,age(\*)
25. room\_id,room type,CR\_id(\*)
26. furniture\_id,furniture\_name,Room\_id
27. CR-id,capacity,room status(\*)
28. Admin\_id,Admin name,address,phone\_num(\*)
29. complain\_id,complain date,details
30. AC\_id,admin\_id,complain\_id
31. std\_id,std name,phone\_num,address,Dept name,DA\_id(\*)
32. complain\_id,complain date,details(\*)
33. SC\_id,std\_id,complain\_id
34. DA\_id,DOB,age(\*)

Final Table :

1. Emp id, Emp name, role,salary,address,phone\_num
2. EH\_id,Emp\_id,Hostel\_id
3. Admin\_id,Admin name,address,phone\_num
4. Hostel\_id,Hostel-name,num of rooms,num of students,Admin\_id
5. Payment-id,payment type,date,total bill
6. HP\_id,Hostel\_id,Payment\_id
7. std\_id,std name,phone\_num,,address,Dept name,DA\_id
8. DA\_id,DOB,age1
9. std \_id,std name,phone\_num,address,Dept name,hostel\_id,DA\_id
10. std \_id,std name,phone\_num,address,Dept name,room\_id,DA\_id
11. room\_id,room typeHostel\_id,CR\_id
12. CR\_id,capacity ,room status
13. Visitor\_id,visitor name,address,date,phone\_num,in time,out time
14. furniture\_id,furniture\_name,Room\_id
15. complain\_id,complain date,details
16. AC\_id,admin\_id,complain\_id
17. SC\_id,std\_id,complain\_id