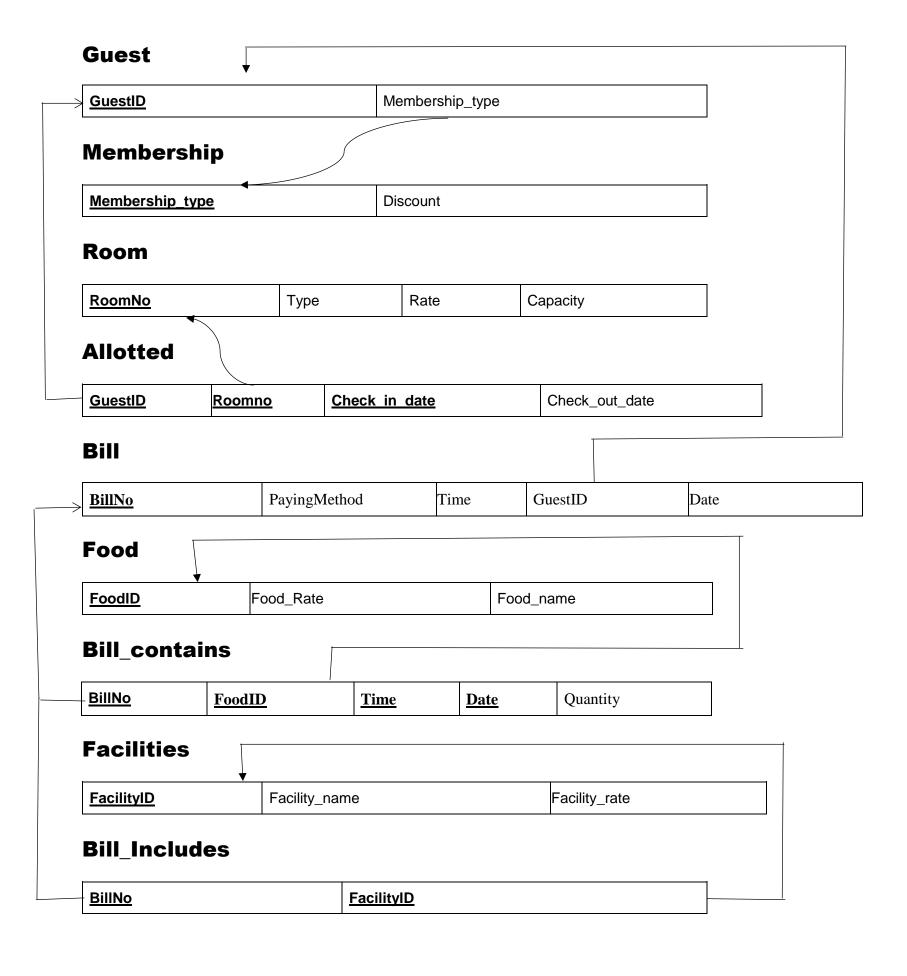# HOTEL BILLLING SYSTEM

GROUP1_K
SHASHWAT MISHRA(201401016)
PANKAJ SIROHI(201401022)
AMAY AGARWAL(201401031)
SHUBHAM KHANDELWAL(201401068)

RELATIONAL SCHEMA

Family

FRSSN	FRName	Street	City	PIN

Family_Members

FRSSN	Name	Age	Visit_date

Family_Contact

FRSSN	Phone.No.

Company

CompanyID	Company_Name

Company_Location

CompanyID	Location

Company_members

CompanyID	SSN	Name	Age	Designation

Guest

GuestID	Membership_type

Membership

Membership_type	Discount

Room

RoomNo	Type	Rate	Capacity

Allotted

GuestID	Roomno	Check_in_date	Check_out_date

Bill

BillNo	PayingMethod	Time	GuestID	Date

Food

FoodID	Food_Rate	Food_name

Bill_contains

BillNo	FoodID	Time	Date	Quantity

Facilities

FacilityID	Facility_name	Facility_rate

Bill_Includes

BillNo	FacilityID

Functional Dependencies

- FRSSN -> {FRName, Street, City, PIN} (Family)
- {FRSSN, Name, Visit_date} -> Age (Family_Members)
- CompanyID –> Company_Name (Company)
- SSN -> {CompanyID, Name, Age, Designation} (Company_members)
- GuestID -> Membership_type (Guest)
- Membership_type -> Discount (Membership)
- RoomNo -> {Type, Rate, Capacity} (Room)
- {GuestID, RoomNo, Check_in_date} -> Check_out_date (Allotted)
- BillNo -> { Paying_method, GuestID, Date, Time } (Bill)
- FoodID -> { Food_name,Food_Rate } (Food)
- {BillNo, Time, Date, FoodID} -> Quantity (Bill_contains)
- FacilityID -> {Facility_name, Facility_Rate} (Facilities)

All the tables are in BCNF.