

Dr B R Ambedkar National Institute of Technology  
Jalandhar-144011, Punjab, India.

July-Dec, 2021



## Database Management Systems

Assignment 1  
(Hospital Management System)

Submitted to:

Dr. Rajneesh Rani

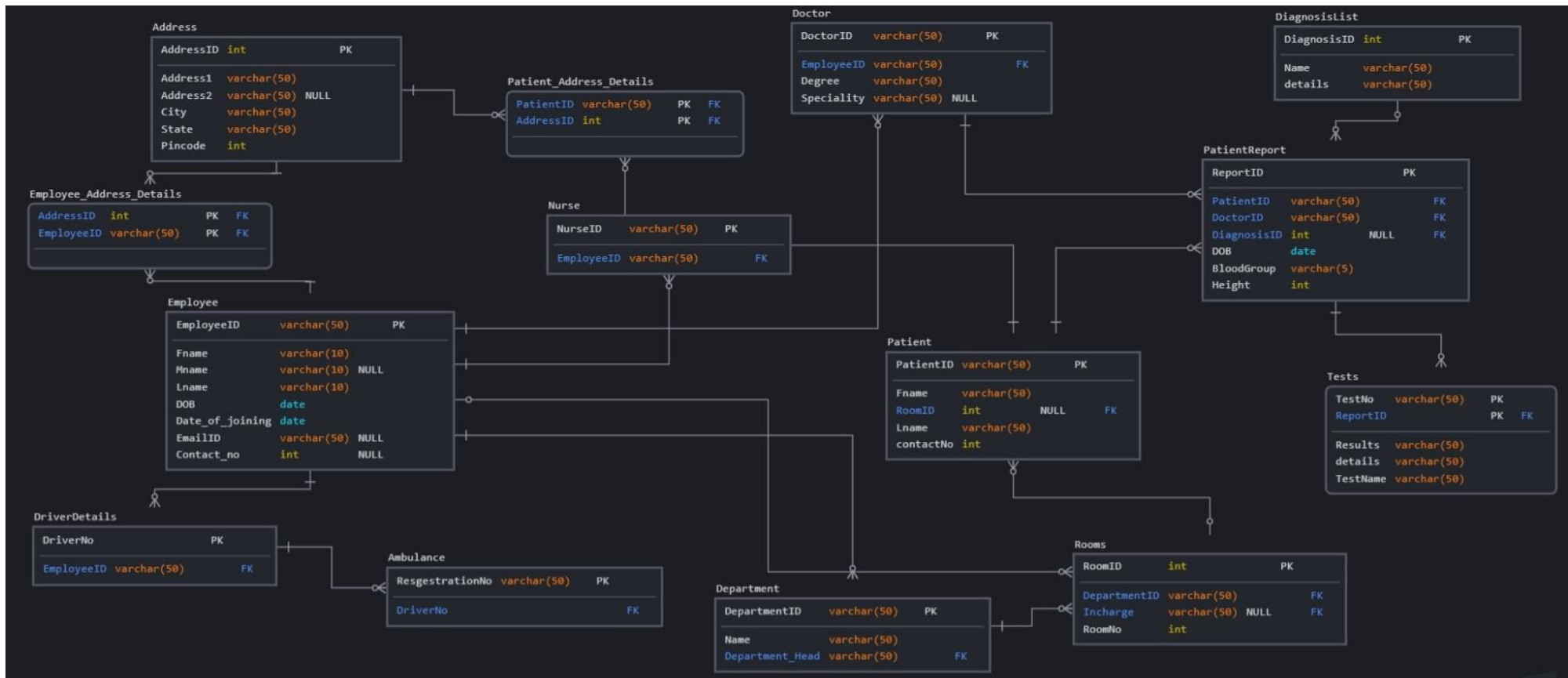
Submitted by:

Abhay (20103001)

Adarsh (20103003)

Akshay (20103010)

Amritdeep (20103013)



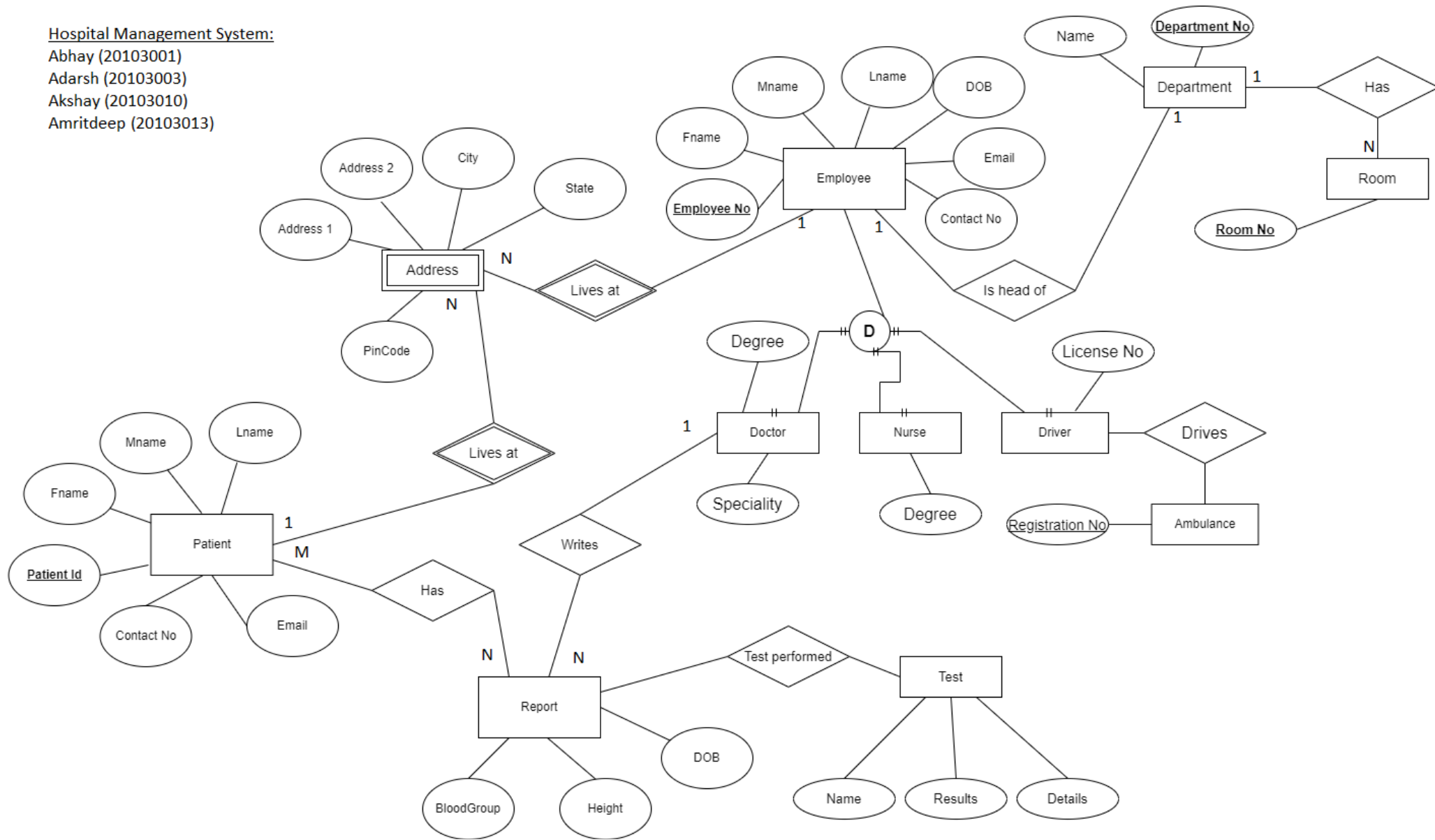
### Hospital Management System:

Abhay (20103001)

Adarsh (20103003)

Akshay (20103010)

Amritdeep (20103013)



```
create database hospital; --creating our database called 'Hospital'
use hospital; --telling mysql to use our 'Hospital' database
```

```
CREATE TABLE Employee --creating table 'Employee'
(EmployeeID      varchar(50) NOT NULL ,
 Fname          varchar(10) NOT NULL ,
 Mname          varchar(10) NULL  ,
 Lname          varchar(10) NULL  ,
 DOB            date NOT NULL ,
 Date_of_joining date NOT NULL ,
 EmailID        varchar(50) NULL  ,
 Contact_no     int NULL ,
 primary key (EmployeeID), -- primary key is Employee id
 check (EmployeeID like 'E%' or 'N%' or 'D%') -- this check is to
make sure that employee id starts from either E,N or D
);
```

```
create table Doctor( --creating table 'Doctor'
DoctorID  varchar(50) NOT NULL ,
Degree    varchar(50) NOT NULL ,
Speciality varchar(50) NULL,
primary key(doctorID), -- primary key is doctor id
foreign key(doctorID) references Employee(EmployeeID), -- doctor id
referes employee id i.e. doctor id must be in employee id column
check (DoctorID like 'D%') -- this check is to make sure that people
with employee id starting from 'D' can be part of this table
);
```

```
create table Nurse( --creating table 'Nurse'
NurseID   varchar(50) NOT NULL,
shift     char NOT NULL,
primary key(NurseID), -- primary key is Nurse id
foreign key(NurseID) references Employee(EmployeeID), -- Nurse id
referes employee id i.e. Nurse id must be in employee id column
check (NurseID like 'N%'), -- this check is to make sure that people
with employee id starting from 'N' can be part of this table
```

```
check (shift in ('M','E','N')) -- this check is to make sure that a
nurse shift can only be 'M','E' or 'N' i.e. morning, evening or night
);
```

```
create table Driver( -- creating table Driver
DriverID   varchar(50) NOT NULL ,
license varchar(10) NOT NULL,
shift char NOT NULL,
primary key (driverID), -- primary key is driver id
foreign key(DriverID) references Employee(EmployeeID), -- this check
is to make sure that people with employee id starting from 'N' can be
part of this table
check (shift in ('M','E','N')) -- this check is to make sure that a
nurse shift can only be 'M','E' or 'N' i.e. morning, evening or night
);
```

```
create table Ambulance( -- creating table Ambulance
RegistrationNO varchar(10) NOT NULL,
primary key(RegistrationNO), -- primary key is Registration no
DriverID varchar(50) NOT NULL,
foreign key(driverID) references Driver(DriverID) -- driver id must
be a part of driver table to be enter in this table
);
```

```
create table department( -- creating table department
departmentID varchar(10) NOT NULL,
primary key(departmentID), -- primary key is department id
name varchar(10) NOT NULL,
departmentHead varchar(50) NOT NULL,
foreign key(departmentHead) references doctor(doctorID) --
department head can only be a doctor and from doctor table
);
```

```
create table room( -- create table room
roomno int Not null,
```

```

primary key(roomno), --primary key is roomno
departmentID varchar(10) NOT NULL,
foreign key(departmentID) references department(departmentID), --
department of room must be a part of department table
roomIncharge varchar(50) NULL,
foreign key (roomIncharge) references doctor(doctorID) -- room
incharge must be doctor from doctor table
);

```

```

create table patient( -- creating patient table
patientID varchar(20) NOT NULL,
primary key(patientID), -- primary key is patient id
Fname          varchar(10) NOT NULL ,
Mname          varchar(10) NULL ,
Lname          varchar(10) NULL ,
contactNo int NULL
);

```

```

create table ward( -- creating table ward
roomNo int NOT NULL,
primary key(roomno),-- primary key is roomno
foreign key(roomNO) references room(roomNO), -- roomno must be part
of room table
patientID varchar(20) NULL,
foreign key (patientID) references patient(patientID)-- patient
must be part of patient table
);

```

```

CREATE TABLE Address( -- creating table address this would contain
address of both employees and patient
AddressID int NOT NULL ,
Address1 varchar(50) NOT NULL ,
Address2 varchar(50) NULL ,
City     varchar(50) NOT NULL ,
State    varchar(50) NOT NULL ,
Pincode  int NOT NULL,

```

```
primary key(addressID) -- primary key is address ID
);
```

```
create table Emp_Addr_Dtls( -- this table Emp_Addr_Dtls links table
employees with their respective addresses
addressID int NOT NULL,
primary key(addressID), --primary key is address id
EmployeeID varchar(50) NOT NULL,
foreign key (addressID) references address(addressID),-- address
must be a part of address table
foreign key (employeeID) references employee(employeeID)-- employee
must be a part of employee table
);
```

```
create table patient_Addr_Dtls(-- this table patient_Addr_Dtls links
table patient with their respective addresses
addressID int NOT NULL,
primary key(addressID),--primary key is address id
patientID varchar(50) NOT NULL,
foreign key (addressID) references address(addressID),-- address
must be a part of address table
foreign key (patientID) references patient(patientID)-- patient must
be part of patient table
);
```

```
CREATE TABLE DiagnosisList(-- this table Diagnosis list contains list
of possible diagnosis and their details
DiagnosisID int NOT NULL ,
Name          varchar(50) NOT NULL ,
details       varchar(50) NOT NULL ,
primary key(diagnosisID));-- primary key is diagnosis ID
```

```
create table patient_report(-- creating table patientID
reportID int Not null,
primary key(reportID),-- report ID is primary key
```

```

patientID varchar(20) NOT NULL,
foreign key(patientID) references patient(patientID), -- patient id
entered here must be part of table patient
diagnosisID int NULL,
foreign key(diagnosisID) references diagnosisList(diagnosisID),--
diagnosis must be from table diagnosisList
DOB date NOT NULL,
BloodGrp varchar(3) NOT NULL,
check (bloodgrp in
('B+', 'A+', 'AB+', 'O+', 'B-', 'A-', 'AB-', 'O-')),--this check makes sure
that correct blood group is entered
height int Null
);

```

```

create table patient_test( --this table contains the name, their
details and result of tests done on patient
testno int NOT NULL,
reportid int NOT NULL,
primary key(reportid,testno),-- primary key is both report id and
test no as one report can have multiple tests
foreign key (reportid) references patient_report(reportid),-- report
id must be inside report table
testname varchar(20),
results varchar(20),
details varchar(20)
);

```