AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH

Faculty Of Science and Technology

Project Cover Page

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Course Title:	Introduction to Database			
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Semester:	Summer	2021-22	Course Teacher:	SIFAT RAHMAN AHONA

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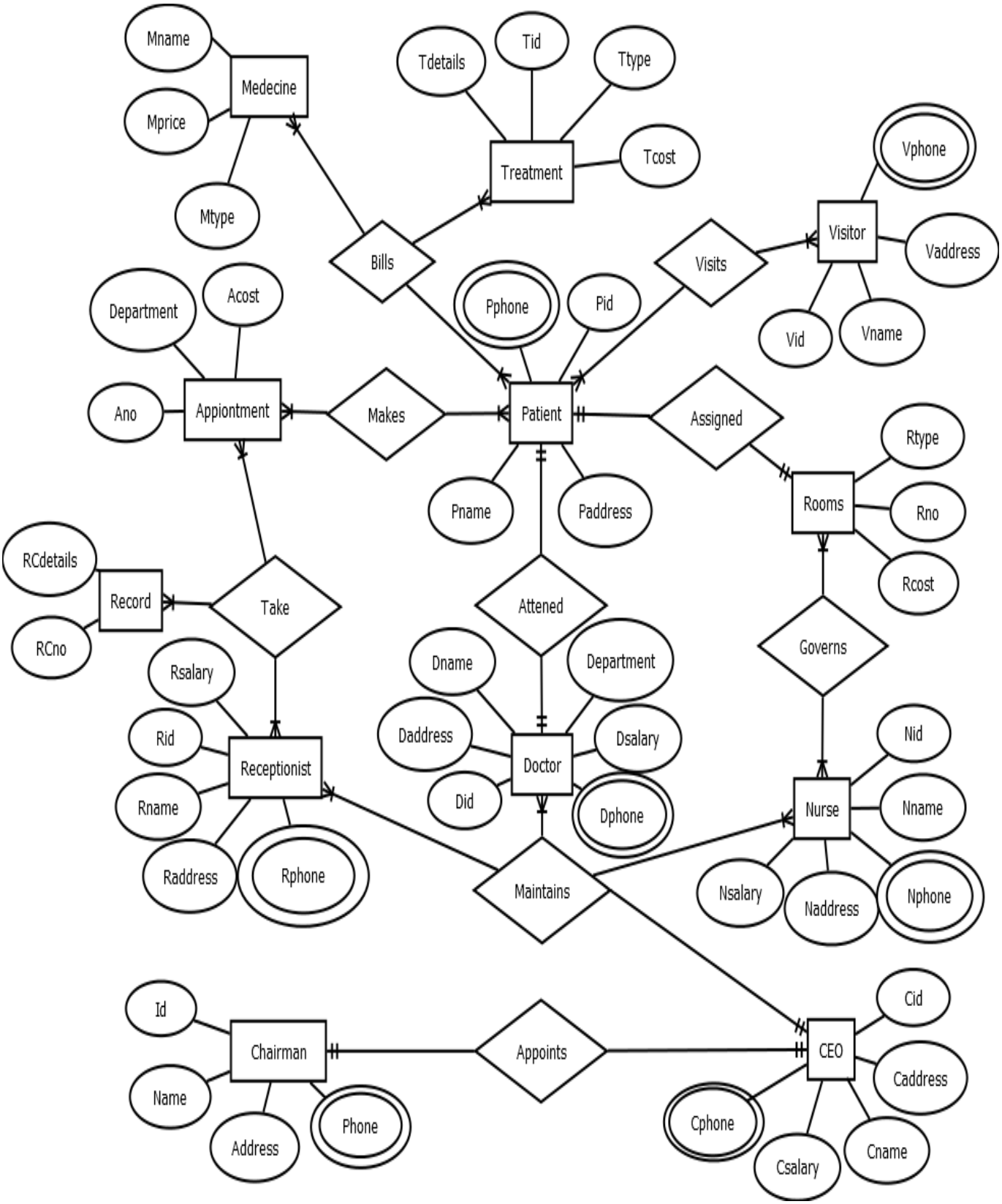
	Total Marks	

HOSPITAL MANAGEMENT

1. **Case Study**

In a hospital management system, chairman appoints a chief executive officer (CEO) to maintain employees. In employee's category there are doctors, nurses, and receptionists. All employees have their own unique ids, names, addresses, and phone numbers. They are paid differently according to their role in the hospital. CEO maintains the communitive and directive requirements of the employees. CEO also have a unique id, name, address, and contact number. Patients makes appointments through receptionist. Patients have their own unique id, name, address, and contact information. Receptionists take records and appointments for the patients. They also book a doctor for a patient and contact the patient to notify the appointment time and date. A receptionist is identified by unique id, name, address, and contact information. A doctor attends a patient to observe and may bill for tests and prescribe medicines. A doctor is identified the id, name, address, and contact information. A patient is assigned a room for treatment. Visitors may pay a visit to meet their patients. Visitors also have the id, name, address and contact information.

2. ER Diagram


Mname
Medecine
Mprice
Mtype
Tdetails
Tid
Ttype
Treatment
Tcost
Bills
Vphone
Visitor
Vaddress
Visits
Vid
Vname
Department
Acost
Pphone
Pid
Ano
Appiontment
Makes
Patient
Assigned
Rtype
Rooms
Rno
Rcost
Pname
Paddress
RCdetails
Record
RCno
Take
Attened
Governs
Rsalary
Dname
Department
Rid
Receptionist
Daddress
Doctor
Dsalary
Nid
Rname
Did
Dphone
Nurse
Nname
Raddress
Rphone
Maintains
Nsalary
Naddress
Nphone
Id
Chairman
Appoints
CEO
Cid
Name
Caddress
Address
Phone
Cphone
Csalary
Cname

3. Normalization

Bills	**(Tid, Ttype, Tdetails, Tcost, Mname, Mcost, Mtype, Pid, Pname, Paddress, Pphone)**
1NF:	Pphone is multivalued attribute.
2NF:	Tid, Ttype, Tdetails, Tcost
	Mname, Mcost, Mtype
	Pid, Pname, Paddress, Pphone
	TMPid, Pid, Tid, Mname
3NF:	No transitional dependency.
	Tid, Ttype, Tdetails, Tcost
	Mname, Mcost, Mtype
	Pid, Pname, Paddress, Pphone
	TPid, Pid, Tid
Table:	Tid, Ttype, Tdetails, Tcost
	Mname, Mcost, Mtype
	Pid, Pname, Paddress, Pphone
	TPid, Pid, Tid
Visits	**(Vid, Vname, Vaddress, Vphone, Pid, Pname, Paddress, Pphone)**
1NF:	Pphone and Vphone are multivalued attribute.
2NF:	Vid, Vname, Vaddress, Vphone
	Pid, Pname, Paddress, Pphone
	VPid, Vid, Pid
3NF:	No transitional dependency.
	Vid, Vname, Vaddress, Vphone
	Pid, Pname, Paddress, Pphone

	VPid, Vid, Pid
Table:	Vid, Vname, Vaddress, Vphone
	Pid, Pname, Paddress, Pphone
	VPid, Vid, Pid
Makes	**(Ano, Department, Acost, Pid, Pname, Paddress, Pphone)**
1NF:	Pphone is multivalued attribute.
2NF:	Ano, Department, Acost
	Pid, Pname, Paddress, Pphone
	Paid, Ano, Pid
3NF:	No transitional dependency.
	Ano, Department, Acost
	Pid, Pname, Paddress, Pphone
	Paid, Ano, Pid
Table:	Ano, Department, Acost
	Pid, Pname, Paddress, Pphone
	PAid, Ano, Pid
Assigned	**(Rno, Rtype, Rcost, Mname, Pid, Pname, Paddress, Pphone)**
1NF:	Pphone is multivalued attribute.
2NF:	Rno, Rtype, Rcost
	Pid, Pname, Paddress, Pphone, Rno
3NF:	No transitional dependency.
	Rno, Rtype, Rcost
	Pid, Pname, Paddress, Pphone, Rno
Table:	Rno, Rtype, Rcost

	Pid, Pname, Paddress, Pphone, Rno
Take	**(Rid, Rname, Raddress, Rphone, RCno, RCdetails, Ano, Department)**
1NF:	Rphone is multivalued attribute.
2NF:	Rid, Rname, Raddress, Rphone, Rsalary
	RCno, RCdetails
	Ano, Department, Acost
	ARCid, Rid, RCno, Ano
3NF:	No transitional dependency.
	Rid, Rname, Raddress, Rphone, Rsalary
	RCno, RCdetails
	Ano, Department, Acost
	ARCid, Rid, RCno, Ano
Table:	Rid, Rname, Raddress, Rphone, Rsalary
	RCno, RCdetails
	Ano, Department, Acost
	ARCid, Rid, RCno, Ano
Governs	**(Nid, Nname, Naddress, Nphone, Rno, Rtype, Rcost)**
1NF:	Nphone is multivalued attribute.
2NF:	Nid, Nname, Naddress, Nphone, Nsalary
	Rno, Rtype, Rcost
	NRid, Nid,Rno
3NF:	No transitional dependency.
	Nid, Nname, Naddress, Nphone, Nsalary
	Rno, Rtype, Rcost

	NRid, Nid,Rno
Table:	Nid, Nname, Naddress, Nphone, Nsalary
	Rno, Rtype, Rcost
	NRid, Nid,Rno
Attend	**(Did, Dname, Daddress, Dphone, Department, Pid, Pname, Paddress, Pphone)**
1NF:	Dphone and Vphone are multivalued attribute.
2NF:	Did, Dname, Daddress, Dphone, Department, Dsalary
	Pid, Pname, Paddress, Pphone, Did
3NF:	No transitional dependency.
	Did, Dname, Daddress, Dphone, Department, Dsalary
	Pid, Pname, Paddress, Pphone, Did
Table:	Did, Dname, Daddress, Dphone, Department, Dsalary
	Pid, Pname, Paddress, Pphone, Did
Maintains	**(Rid, Rname, Raddress, Rphone, Did, Dname, Daddress, Dphone, Department, Nid, Nname, Naddress, Nphone Cid, Cname, Caddress, Cphone)**
1NF:	Rphone, Dphone, and Cphone are multivalued attribute.
2NF:	Rid, Rname, Raddress, Rphone, Rsalary, Cid
	Did, Dname, Daddress, Dphone, Department, Dsalkary, Cid
	Nid, Nname, Naddress, Nphone, Nsalary, Cid
	Cid, Cname, Caddress, Csalary, Cphone
3NF:	No transitional dependency.
	Rid, Rname, Raddress, Rphone, Rsalary, Cid
	Did, Dname, Daddress, Dphone, Department, Dsalary, Cid
	Nid, Nname, Naddress, Nphone, Nsalary, Cid

Cid, Cname, Caddress, Csalary, Cphone

Table: Rid, Rname, Raddress, Rphone, Rsalary, Cid

Did, Dname, Daddress, Dphone, Department, Dsalary, Cid

Nid, Nname, Naddress, Nphone, Nsalary, Cid

Cid, Cname, Caddress, Csalary, Cphone

Appoints **(Cid, Cname, Caddress, Cphone, Id, Name, Address, Phone)**

1NF: Cphone and Phone are multivalued attribute.

2NF: Cid, Cname, Caddress, Csalary, Cphone

Id, Name, Address, Phone, Cid

3NF: No transitional dependency.

Cid, Cname, Caddress, Csalary, Cphone

Id, Name, Address, Phone, Cid

Table: Cid, Cname, Caddress, Csalary, Cphone

Id, Name, Address, Phone, Cid

Total Tables:

1. Tid, Ttype, Tdetails, Tcost
2. Mname, Mcost, Mtype
3. Pid, Pname, Paddress, Pphone
4. TMPid, Pid, Tid, Mname
5. Vid, Vname, Vaddress, Vphone
6. Pid, Pname, Paddress, Pphone
7. VPid, Vid, Pid
8. Ano, Department, Acost
9. Pid, Pname, Paddress, Pphone
10. PAid, Ano, Pid
11. Rno, Rtype, Rcost
12. Pid, Pname, Paddress, Pphone, Rno
13. Rid, Rname, Raddress, Rsalary, Rphone

14. RCno, RCdetails
15. Ano, Department, Acost
16. ARCid, Rid, RCno, Ano
17. Nid, Nname, Naddress, Nsalary, Nphone
18. Rno, Rtype, Rcost
19. NRid, Nid,Rno
20. Did, Dname, Daddress, Dphone, Dsalary, Department
21. Pid, Pname, Paddress, Pphone, Did
22. Rid, Rname, Raddress, Rphone, Rsalary, Cid
23. Did, Dname, Daddress, Dphone, Dsalary, Department, Cid
24. Nid, Nname, Naddress, Nsalary, Nphone, Cid
25. Cid, Cname, Caddress, Csalary, Cphone
26. Cid, Cname, Caddress, Csalary, Cphone
27. Id, Name, Address, Phone, Cid

Final Table:

1. Tid, Ttype, Tdetails, Tcost
2. Mname, Mcost, Mtype
3. TMPid, Pid, Tid, Mname
4. Vid, Vname, Vaddress, Vphone
5. VPid, Vid, Pid
6. Ano, Department, Acost
7. PAid, Ano, Pid
8. Rno, Rtype, Rcost
9. Pid, Pname, Paddress, Pphone, Rno, Did
10. RCno, RCdetails
11. ARCid, Rid, RCno, Ano
12. NRid, Nid, Rno
13. Rid, Rname, Raddress, Rsalary, Rphone, Cid
14. Did, Dname, Daddress, Dphone, Dsalary, Department, Cid
15. Nid, Nname, Naddress, Nsalary, Nphone, Cid
16. Cid, Cname, Caddress, Csalary, Cphone
17. Id, Name, Address, Phone, Cid

4. Table creation:

1. create table Treatment (Tid number (5) constraint Treatment_Tid_pk primary key not null, Ttype varchar2 (20), Tdetails varchar2 (149), Tcost number (6))

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TREATMENT	TID	Number	-	5	0	1	-	-	-
	TTYPE	Varchar2	20	-	-	-	✓	-	-
	TDETAILS	Varchar2	149	-	-	-	✓	-	-
	TCOST	Number	-	6	0	-	✓	-	-

1 - 4

2. create table Medicine (Mname varchar2 (20) constraint Medicine_Mname_pk primary key, Mtype varchar2 (20), Mcost number (6))

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
MEDICINE	MNAME	Varchar2	20	-	-	1	-	-	-
	MTYPE	Varchar2	20	-	-	-	✓	-	-
	MCOST	Number	-	6	0	-	✓	-	-

1 - 3

3. create table Visitors (Vid number (5) constraint Visitors_Vid_pk primary key not null, Vname varchar2 (30), Vaddress varchar2 (50), Vphone number (14) unique)

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
VISITORS	VID	Number	-	5	0	1	-	-	-
	VNAME	Varchar2	30	-	-	-	✓	-	-
	VADDRESSS	Varchar2	50	-	-	-	✓	-	-
	VPHONE	Number	-	14	0	-	✓	-	-

1 - 4

4. create table Appointments (Ano number (3) constraint Appointments_Ano_pk primary key not null, Department varchar2 (20), Acost number (4) default 1000)

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
APPOINTMENTS	ANO	Number	-	3	0	1	-	-	-
	DEPARTMENT	Varchar2	20	-	-	-	✓	-	-
	ACOST	Number	-	4	0	-	✓	1000	-

1 - 3

5. create table Rooms (Rno number (4) constraint Rooms_Rno_pk primary key, Rtype varchar2 (20), Rcost number (6))

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ROOMS	RNO	Number	-	4	0	1	-	-	-
	RTYPE	Varchar2	20	-	-	-	✓	-	-
	RCOST	Number	-	6	0	-	✓	-	-
									1 - 3

6. create table Records (RCno number (6) constraint Records_RCno_pk primary key, RCdetails varchar2 (250))

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
RECORDS	RCNO	Number	-	6	0	1	-	-	-
	RCDETAILS	Varchar2	250	-	-	-	✓	-	-
									1 - 2

7. create table CEO (Cid number (5) constraint CEO_Cid_pk primary key not null, Cname varchar2 (30), Caddress varchar2 (50), Csalary number (7), Cphone number (14) unique)

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CEO	CID	Number	-	5	0	1	-	-	-
	CNAME	Varchar2	30	-	-	-	✓	-	-
	CADDRESS	Varchar2	50	-	-	-	✓	-	-
	CSALARY	Number	-	7	0	-	✓	-	-
	CPHONE	Number	-	14	0	-	✓	-	-
									1 - 5

8. create table Chairman (Id number (5) constraint Chairman_Id_pk primary key not null, Name varchar2 (30), Address varchar2 (50), Phone number (14) unique, Cid number (5) constraint CEO_Cid_fk references CEO (Cid))

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CHAIRMAN	ID	Number	-	5	0	1	-	-	-
	NAME	Varchar2	30	-	-	-	✓	-	-
	ADDRESS	Varchar2	50	-	-	-	✓	-	-
	PHONE	Number	-	14	0	-	✓	-	-
	CID	Number	-	5	0	-	✓	-	-
									1 - 5

9. create table Receptionists (Rid number (5) constraint Receptionists_Rid_pk primary key not null, Rname varchar2 (30), Raddress varchar2 (50), Rsalary number (5), Rphone number (14) unique, Cid number (5) constraint CEO_Cid_r_fk references CEO (Cid))

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
RECEPTIONISTS	RID	Number	-	5	0	1	-	-	-
	RNAME	Varchar2	30	-	-	-	✓	-	-
	RADDRESS	Varchar2	50	-	-	-	✓	-	-
	RSALARY	Number	-	5	0	-	✓	-	-
	RPHONE	Number	-	14	0	-	✓	-	-
	CID	Number	-	5	0	-	✓	-	-

1 - 6

10. create table Nurses (Nid number (5) constraint Nurses_Nid_pk primary key not null, Nname varchar2 (30), Naddress varchar2 (50), Nsalary number (5), Nphone number (14) unique, Cid number (5) constraint CEO_Cid_n_fk references CEO (Cid))

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
NURSES	NID	Number	-	5	0	1	-	-	-
	NNAME	Varchar2	30	-	-	-	✓	-	-
	NADDRESS	Varchar2	50	-	-	-	✓	-	-
	NSALARY	Number	-	5	0	-	✓	-	-
	NPHONE	Number	-	14	0	-	✓	-	-
	CID	Number	-	5	0	-	✓	-	-

1 - 6

11. create table Doctors (Did number (5) constraint Doctors_Did_pk primary key not null, Dname varchar2 (30), Daddress varchar2 (50), Dsalary number (7), Department varchar2 (20), Dphone number (14) unique, Cid number (5) constraint CEO_Cid_d_fk references CEO (Cid))

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DOCTORS	DID	Number	-	5	0	1	-	-	-
	DNAME	Varchar2	30	-	-	-	✓	-	-
	DADDRESS	Varchar2	50	-	-	-	✓	-	-
	DSALARY	Number	-	7	0	-	✓	-	-
	DEPARTMENT	Varchar2	20	-	-	-	✓	-	-
	DPHONE	Number	-	14	0	-	✓	-	-
	CID	Number	-	5	0	-	✓	-	-

1 - 7

12. create table Patients (Pid number (5) constraint Patients_Pid_pk primary key not null, Pname varchar2 (30), Paddress varchar2 (50), Pphone number (14) unique, Rno number (4) constraint Rooms_Rno_p_fk references Rooms (Rno), Did number (5) constraint Doctors_Did_p_fk references Doctors (Did))

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PATIENTS	PID	Number	-	5	0	1	-	-	-
	PNAME	Varchar2	30	-	-	-	✓	-	-
	PADDRESS	Varchar2	50	-	-	-	✓	-	-
	PPHONE	Number	-	14	0	-	✓	-	-
	RNO	Number	-	4	0	-	✓	-	-
	DID	Number	-	5	0	-	✓	-	-

1 - 6

13. create table TMP (TMPid number (5) constraint TMP_TMPid_pk primary key, Pid number (5) constraint Patients_Pid_tmp_fk references Patients (Pid), Tid number (5) constraint Treatment_Tid_fk references Treatment (Tid), Mname varchar2 (20) constraint Medicine_Mname_fk references Medicine (Mname))

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TMP	TMPID	Number	-	5	0	1	-	-	-
	PID	Number	-	5	0	-	✓	-	-
	TID	Number	-	5	0	-	✓	-	-
	MNAME	Varchar2	20	-	-	-	✓	-	-

1 - 4

14. create table VP (VPid number (5) constraint VP_VPid_pk primary key, Vid number (5) constraint Visitors_Vid_fk references Visitors (Vid), Pid number (5) constraint Patients_Pid_fk references Patients (Pid))

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
VP	VPID	Number	-	5	0	1	-	-	-
	VID	Number	-	5	0	-	✓	-	-
	PID	Number	-	5	0	-	✓	-	-

1 - 3

15. create table PA (PAid number (5) constraint PA_PAid_pk primary key, Ano number (5) constraint Appointments_Ano_fk references Appointments (Ano), Pid number (5) constraint Patients_Pid_pa_fk references Patients (Pid))

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PA	PAID	Number	-	5	0	1	-	-	-
	ANO	Number	-	5	0	-	✓	-	-
	PID	Number	-	5	0	-	✓	-	-

1 - 3

16. create table NR (NRid number (5) constraint NR_NRid_pk primary key, Nid number (5) constraint Nurses_Nid_nr_fk references Nurses (Nid), Rno number (4) constraint Rooms_Rno_fk references Rooms (Rno))

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
NR	NRID	Number	-	5	0	1	-	-	-
	NID	Number	-	5	0	-	✓	-	-
	RNO	Number	-	4	0	-	✓	-	-
									1 - 3

17. create table ARC (ARCid number (5) constraint ARC_ARCid_pk primary key, Rid number (5) constraint Receptionists_Rid_pa_fk references Receptionists (Rid), RCno number (6) constraint Records_RCno_fk references Records (RCno), Ano number (5) constraint Appointments_Ano_arc_fk references Appointments (Ano))

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ARC	ARCID	Number	-	5	0	1	-	-	-
	RID	Number	-	5	0	-	✓	-	-
	RCNO	Number	-	6	0	-	✓	-	-
	ANO	Number	-	5	0	-	✓	-	-
									1 - 4

5. Data Insertion:

Creating Sequences:

1. create sequence tid increment by 1 start with 10001 maxvalue 10010 nocache nocycle
2. create sequence tmpid increment by 1 start with 30001 maxvalue 30010 nocache nocycle
3. create sequence vid increment by 1 start with 40001 maxvalue 40010 nocache nocycle
4. create sequence ano increment by 1 start with 501 maxvalue 510 nocache nocycle
5. create sequence rno increment by 1 start with 6001 maxvalue 6010 nocache nocycle
6. create sequence rcno increment by 1 start with 700001 maxvalue 700010 nocache nocycle
7. create sequence rid increment by 1 start with 10101 maxvalue 10110 nocache nocycle
8. create sequence nid increment by 1 start with 11001 maxvalue 11010 nocache nocycle
9. create sequence did increment by 1 start with 12001 maxvalue 12010 nocache nocycle
10. create sequence pid increment by 1 start with 13001 maxvalue 13010 nocache nocycle
11. create sequence vpid increment by 1 start with 14001 maxvalue 14010 nocache nocycle

12. create sequence paid increment by 1 start with 15001 maxvalue 15010 nocache nocycle
13. create sequence nrid increment by 1 start with 16001 maxvalue 16010 nocache nocycle
14. create sequence arcid increment by 1 start with 17001 maxvalue 17010 nocache nocycle
15. create sequence phone increment by 1 start with 01700000001 maxvalue 01700000100 nocache nocycle

inserting into table:

1. **CEO**

I. insert into CEO (Cid, Cname, Caddress, Csalary, Cphone) values (80001, 'Dr. Md Sulaiman', 'Dhaka', '10000', phone.nextval)

CID	CNAME	CADDRESS	CSALARY	CPHONE
80001	Dr. Md Sulaiman	Dhaka	10000	1700000001

2. **Chairman**

I. insert into Chairman (id, name, address, phone, Cid) values (90001, 'Dr. Mossharrof Karim', 'Dhaka', phone.nextval)

ID	NAME	ADDRESS	PHONE	CID
90001	Dr. Mossharrof Karim	Dhaka	1700000002	-

3. **Receptionists**

I. insert into Receptionists (Rid, Rname, Raddress, Rsalary, Rphone, Cid) values (rid.nextval, 'Mahmuda Kabir', 'Dhaka', 20000, phone.nextval, 80001)

II. insert into Receptionists (Rid, Rname, Raddress, Rsalary, Rphone, Cid) values (rid.nextval, 'Nahid Amin', 'Noakhali', 10000, phone.nextval, 80001)

III. insert into Receptionists (Rid, Rname, Raddress, Rsalary, Rphone, Cid) values (rid.nextval, 'Raisa Parvez', 'Gazipur', 19000, phone.nextval, 80001)

IV. insert into Receptionists (Rid, Rname, Raddress, Rsalary, Rphone, Cid) values (rid.nextval, 'Jannatul Preoti', 'Kustia', 30000, phone.nextval, 80001)

V. insert into Receptionists (Rid, Rname, Raddress, Rsalary, Rphone, Cid) values (rid.nextval, 'Ibrahim Sahil', 'Dhaka', 23000, phone.nextval, 80001)

VI. insert into Receptionists (Rid, Rname, Raddress, Rsalary, Rphone, Cid) values (rid.nextval, 'Christopher Andrew', 'Barishal', 23000, phone.nextval, 80001)

VII. insert into Receptionists (Rid, Rname, Raddress, Rsalary, Rphone, Cid) values (rid.nextval, 'Fiaz Fardin', 'Dhaka', 20000, phone.nextval, 80001)

VIII. insert into Receptionists (Rid, Rname, Raddress, Rsalary, Rphone, Cid) values (rid.nextval, 'Afsana Onu', 'Kustia', 10000, phone.nextval, 80001)

IX. insert into Receptionists (Rid, Rname, Raddress, Rsalary, Rphone, Cid) values (rid.nextval, 'Marjuk Mugdha', 'Dhaka', 25000, phone.nextval, 80001)

X. insert into Receptionists (Rid, Rname, Raddress, Rsalary, Rphone, Cid) values (rid.nextval, 'Nadia Swarna', 'Mymensingh', 21000, phone.nextval, 80001)

select * from Receptionists

RID	RNAME	RADDRESS	RSALARY	RPHONE	CID
10103	Raisa Parvez	Gazipur	19000	1700000005	80001
10104	Jannatul Preoti	Kustia	30000	1700000006	80001
10105	Ibrahim Sahil	Dhaka	23000	1700000007	80001
10106	Christopher Andrew	Barishal	23000	1700000008	80001
10107	Fiaz Fardin	Dhaka	20000	1700000009	80001
10108	Marjuk Mugdha	Dhaka	25000	1700000010	80001
10109	Nadia Swarna	Mymensingh	21000	1700000011	80001
10110	Afsana Onu	Kustia	10000	1700000012	80001
10101	Nahid Amin	Noakhali	10000	1700000003	80001
10102	Mahmuda Kabir	Dhaka	20000	1700000004	80001

4. Nurses

I. insert into Nurses (Nid, Nname, Naddress, Nsalary, Nphone, Cid) values (nid.nextval, 'Nasrin Akter', 'Dhaka', 15000, phone.nextval, 80001)

II. insert into Nurses (Nid, Nname, Naddress, Nsalary, Nphone, Cid) values (nid.nextval, 'Toslima Nasrin', 'Coxs Bazer', 11000, phone.nextval, 80001)

III. insert into Nurses (Nid, Nname, Naddress, Nsalary, Nphone, Cid) values (nid.nextval, 'Noushin Anjum', 'Mymensingh', 15000, phone.nextval, 80001)

IV. insert into Nurses (Nid, Nname, Naddress, Nsalary, Nphone, Cid) values (nid.nextval, 'Nabiha Tahsin', 'Dhaka', 20000, phone.nextval, 80001)

V. insert into Nurses (Nid, Nname, Naddress, Nsalary, Nphone, Cid) values (nid.nextval, 'Susmita Alam', 'Bogura', 19000, phone.nextval, 80001)

VI. insert into Nurses (Nid, Nname, Naddress, Nsalary, Nphone, Cid) values (nid.nextval, 'Nasrina Khatun', 'Dhaka', 11000, phone.nextval, 80001)

VII. insert into Nurses (Nid, Nname, Naddress, Nsalary, Nphone, Cid) values (nid.nextval, 'Nusrat Ritu', 'Dhaka', 11000, phone.nextval, 80001)

VIII. insert into Nurses (Nid, Nname, Naddress, Nsalary, Nphone, Cid) values (nid.nextval, 'Rina Salma', 'Rangpur', 12000, phone.nextval, 80001)

IX. insert into Nurses (Nid, Nname, Naddress, Nsalary, Nphone, Cid) values (nid.nextval, 'Tasnin Nafisa', 'Rajshahi', 16000, phone.nextval, 80001)

X. insert into Nurses (Nid, Nname, Naddress, Nsalary, Nphone, Cid) values (nid.nextval, 'Tamanna Sultana', 'Khulna', 18000, phone.nextval, 80001)

select * from Nurses

NID	NNAME	NADDRESS	NSALARY	NPHONE	CID
11001	Nasrin Akter	Dhaka	15000	1700000013	80001
11002	Toslima Nasrin	Coxs Bazer	11000	1700000014	80001
11003	Noushin Anjum	Mymensingh	15000	1700000015	80001
11004	Nabiha Tahsin	Dhaka	20000	1700000016	80001
11005	Susmita Alam	Bogura	19000	1700000017	80001
11006	Nasrina Khatun	Dhaka	11000	1700000018	80001
11007	Nusrat Ritu	Dhaka	11000	1700000019	80001
11008	Rina Salma	Rangpur	12000	1700000020	80001
11009	Tasnin Nafisa	Rajshahi	16000	1700000021	80001
11010	Tamanna Sultana	Khulna	18000	1700000022	80001

5. Doctors

I. insert into Doctors (did, dname, daddress, dsalary, department, dphone, Cid) values (did.nextval, 'Dr. Nasrin Akter', 'Dhaka', 150000, 'ENT', phone.nextval, 80001)

II. insert into Doctors (did, dname, daddress, dsalary, department, dphone, Cid) values (did.nextval, 'Dr. Sayema Sultana', 'Mymensingh', 160000, 'GM', phone.nextval, 80001)

III. insert into Doctors (did, dname, daddress, dsalary, department, dphone, Cid) values (did.nextval, 'Dr. Parvin Ahmed', 'Dhaka', 170000, 'OT', phone.nextval, 80001)

IV. insert into Doctors (did, dname, daddress, dsalary, department, dphone, Cid) values (did.nextval, 'Dr. Abul Bashar', 'Rajshahi', 140000, 'CRD', phone.nextval, 80001)

V. insert into Doctors (did, dname, daddress, dsalary, department, dphone, Cid) values (did.nextval, 'Dr. GMM Chisty', 'Khulna', 110000, 'NEURO', phone.nextval, 80001)

VI. insert into Doctors (did, dname, daddress, dsalary, department, dphone, Cid) values (did.nextval, 'Dr. Abu Bakar', 'Dhaka', 150000, 'ENT', phone.nextval, 80001)

VII. insert into Doctors (did, dname, daddress, dsalary, department, dphone, Cid) values (did.nextval, 'Dr. Jahedul Haque', 'Dhaka', 150000, 'DNT', phone.nextval, 80001)

VIII. insert into Doctors (did, dname, daddress, dsalary, department, dphone, Cid) values (did.nextval, 'Dr. Jannatul Adol', 'Kustia', 190000, 'SKIN', phone.nextval, 80001)

IX. insert into Doctors (did, dname, daddress, dsalary, department, dphone, Cid) values (did.nextval, 'Dr. Humira Meghla', 'Kustia', 200000, 'OPT', phone.nextval, 80001)

X. insert into Doctors (did, dname, daddress, dsalary, department, dphone, Cid) values (did.nextval, 'Dr. Mehbuba Mim', 'Kustia', 210000, 'GA', phone.nextval, 80001)

select * from doctors

DID	DNAME	DADDRESS	DSALARY	DEPARTMENT	DPHONE	CID
12001	Dr. Nasrin Akter	Dhaka	150000	ENT	1700000023	80001
12002	Dr. Sayema Sultana	Mymensingh	160000	GM	1700000024	80001
12003	Dr. Parvin Ahmed	Dhaka	170000	OT	1700000025	80001
12004	Dr. Abul Bashar	Rajshahi	140000	CRD	1700000026	80001
12005	Dr. GMM Chisty	Khulna	110000	NEURO	1700000027	80001
12006	Dr. Abu Bakar	Dhaka	150000	ENT	1700000028	80001
12007	Dr. Jahedul Haque	Dhaka	150000	DNT	1700000029	80001
12008	Dr. Jannatul Adol	Kustia	190000	SKIN	1700000030	80001
12009	Dr. Humira Meghla	Kustia	200000	OPT	1700000031	80001
12010	Dr. Mehbuba Mim	Kustia	210000	GA	1700000032	80001

6. Rooms

I. insert into Rooms (Rno, Rtype, Rcost) values (rno.nextval, 'AC', 5000)

II. insert into Rooms (Rno, Rtype, Rcost) values (rno.nextval, 'NON AC', 2500)

III. insert into Rooms (Rno, Rtype, Rcost) values (rno.nextval, 'NON AC', 2500)

IV. insert into Rooms (Rno, Rtype, Rcost) values (rno.nextval, 'NON AC', 2500)

V. insert into Rooms (Rno, Rtype, Rcost) values (rno.nextval, 'NON AC', 2500)

VI. insert into Rooms (Rno, Rtype, Rcost) values (rno.nextval, 'NON AC', 2500)

VII. insert into Rooms (Rno, Rtype, Rcost) values (rno.nextval, 'AC', 5000)

VIII. insert into Rooms (Rno, Rtype, Rcost) values (rno.nextval, 'AC', 5000)

IX. insert into Rooms (Rno, Rtype, Rcost) values (rno.nextval, 'AC', 5000)

X. insert into Rooms (Rno, Rtype, Rcost) values (rno.nextval, 'AC', 5000)

select * from Rooms

RNO	RTYPE	RCOST
6001	AC	5000
6002	NON AC	2500
6003	NON AC	2500
6004	NON AC	2500
6005	NON AC	2500
6006	NON AC	2500
6007	AC	5000
6008	AC	5000
6009	AC	5000
6010	AC	5000

7. Patients

I. insert into Patients (Pid, Pname, Paddress, Pphone, Rno, Did) values (pid.nextval, 'Salam', 'Gazipur', phone.nextval, 6001, 12001)

II. insert into Patients (Pid, Pname, Paddress, Pphone, Rno, Did) values (pid.nextval, 'Kalam', 'Barishal', phone.nextval, 6002, 12002)

III. insert into Patients (Pid, Pname, Paddress, Pphone, Rno, Did) values (pid.nextval, 'Siraj', 'Dhaka', phone.nextval, 6003, 12003)

IV. insert into Patients (Pid, Pname, Paddress, Pphone, Rno, Did) values (pid.nextval, 'Sobhan', 'Chattogram', phone.nextval, 6004, 12004)

V. insert into Patients (Pid, Pname, Paddress, Pphone, Rno, Did) values (pid.nextval, 'Banik', 'Gazipur', phone.nextval, 6005, 12005)

VI. insert into Patients (Pid, Pname, Paddress, Pphone, Rno, Did) values (pid.nextval, 'Pathik', 'Rangpur', phone.nextval, 6006, 12006)

VII. insert into Patients (Pid, Pname, Paddress, Pphone, Rno, Did) values (pid.nextval, 'kaiser', 'jamalpur', phone.nextval, 6007, 12007)

VIII. insert into Patients (Pid, Pname, Paddress, Pphone, Rno, Did) values (pid.nextval, 'Fahim', 'Raipur', phone.nextval, 6008, 12008)

IX. insert into Patients (Pid, Pname, Paddress, Pphone, Rno, Did) values (pid.nextval, 'Nourin', 'Bandarban', phone.nextval, 6009, 12009)

X. insert into Patients (Pid, Pname, Paddress, Pphone, Rno, Did) values (pid.nextval, 'Salehin', 'Jessore', phone.nextval, 6010, 12010)

select * from patients

PID	PNAME	PADDRESS	PPHONE	RNO	DID
13001	Salam	Gazipur	1700000033	6001	12001
13002	Kalam	Barishal	1700000034	6002	12002
13003	Siraj	Dhaka	1700000035	6003	12003
13004	Sobhan	Chattogram	1700000036	6004	12004
13005	Banik	Gazipur	1700000037	6005	12005
13006	Pathik	Rangpur	1700000038	6006	12006
13007	kaiser	jamalpur	1700000039	6007	12007
13008	Fahim	Raipur	1700000040	6008	12008
13009	Nourin	Bandarban	1700000041	6009	12009

8. Records

I. insert into Records (RCno, RCdetails) values (rcno.nextval, 'Diagonested with Ear Infection')

II. insert into Records (RCno, RCdetails) values (rcno.nextval, 'Diagonested with Stage one Cancer')

III. insert into Records (RCno, RCdetails) values (rcno.nextval, 'Diagonested with Broken Bones')

IV. insert into Records (RCno, RCdetails) values (rcno.nextval, 'Diagonested with Finger Infection')

V. insert into Records (RCno, RCdetails) values (rcno.nextval, 'Diagonested with Skin Infection')

VI. insert into Records (RCno, RCdetails) values (rcno.nextval, 'Diagonested with Ligament Injury')

VII. insert into Records (RCno, RCdetails) values (rcno.nextval, 'Diagonested with Cardiac Arrest')

VIII. insert into Records (RCno, RCdetails) values (rcno.nextval, 'Diagonested with Renal Failure')

IX. insert into Records (RCno, RCdetails) values (rcno.nextval, 'Diagonested with Eye Cataract')

X. insert into Records (RCno, RCdetails) values (rcno.nextval, 'Diagonested with Abdominal Injury')

select * from Records

RCNO	RCDETAILS
700001	Diagonested with Ear Infection
700002	Diagonested with Stage one Cancer
700003	Diagonested with Broken Bones
700004	Diagonested with Finger Infection
700005	Diagonested with Skin Infection
700006	Diagonested with Ligament Injury
700007	Diagonested with Cardiac Arrest
700008	Diagonested with Renal Failure
700009	Diagonested with Eye Cataract
700010	Diagonested with Abdominal Injury

9. Appointments

I. insert into Appointments (Ano, Department, Acost) values (ano.nextval, 'ENT','500')
II. insert into Appointments (Ano, Department, Acost) values (ano.nextval, 'GM','600')
III. insert into Appointments (Ano, Department, Acost) values (ano.nextval, 'OT','1000')
IV. insert into Appointments (Ano, Department, Acost) values (ano.nextval, 'CRD','500')
V. insert into Appointments (Ano, Department, Acost) values (ano.nextval, 'NEURO','500')
VI. insert into Appointments (Ano, Department, Acost) values (ano.nextval, 'DNT','200')
VII. insert into Appointments (Ano, Department, Acost) values (ano.nextval, 'ENT','500')
VIII. insert into Appointments (Ano, Department, Acost) values (ano.nextval, 'SKIN','400')
IX. insert into Appointments (Ano, Department, Acost) values (ano.nextval, 'OPT','500')
X. insert into Appointments (Ano, Department, Acost) values (ano.nextval, 'GA','400')

select * from Appointments

ANO	DEPARTMENT	ACOST
501	ENT	500
502	GM	600
503	OT	1000
504	CRD	500
505	NEURO	500
506	DNT	200
507	ENT	500
508	SKIN	400
509	OPT	500
510	GA	400

10. Treatment

I. insert into Treatment (Tid, Ttype, Tdetails, Tcost) values (tid.nextval, 'Ear checkup', 'Infection found in left ear', 3000)
II. insert into Treatment (Tid, Ttype, Tdetails, Tcost) values (tid.nextval, 'X-RAY ', 'Fracture on left leg', 4000)
III. insert into Treatment (Tid, Ttype, Tdetails, Tcost) values (tid.nextval, 'Full body checkup', 'High cholesterol', 9000)
IV. insert into Treatment (Tid, Ttype, Tdetails, Tcost) values (tid.nextval, 'Root canal', 'Cavity found on teeth', 3000)

V. insert into Treatment (Tid, Ttype, Tdetails, Tcost) values (tid.nextval, 'Ear checkup', 'Infection found in right ear', 1000)

VI. insert into Treatment (Tid, Ttype, Tdetails, Tcost) values (tid.nextval, 'X-RAY', 'Fracture found in left knee', 3000)

VII. insert into Treatment (Tid, Ttype, Tdetails, Tcost) values (tid.nextval, 'X-RAY', 'Fracture found in left arm', 2000)

VIII. insert into Treatment (Tid, Ttype, Tdetails, Tcost) values (tid.nextval, 'Surgery', 'Tumor found in right shoulder', 6000)

IX. insert into Treatment (Tid, Ttype, Tdetails, Tcost) values (tid.nextval, 'Eye checkup', 'Renal failure on left eye', 5000)

X. insert into Treatment (Tid, Ttype, Tdetails, Tcost) values (tid.nextval, 'Eye checkup', 'Eye cataract found in right eye', 7000)

select * from Treatment

TID	TTYPE	TDETAILS	TCOST
10001	Ear checkup	Infection found in left ear	3000
10002	X-RAY	Fracture on left leg	4000
10003	Full body checkup	High cholesterol	9000
10004	Root canal	Cavity found on teeth	3000
10005	Ear checkup	Infection found in right ear	1000
10006	X-RAY	Fracture found in left knee	3000
10007	X-RAY	Fracture found in left arm	2000
10008	Surgery	Tumor found in right shoulder	6000
10009	Eye checkup	Renal failure on left eye	5000
10010	Eye checkup	Eye cataract found in right eye	7000

11. Medicine

I. insert into Medicine (Mname, Mtype, Mcost) values ('Fexo120', 'Anti-inflammatory', 800)

II. insert into Medicine (Mname, Mtype, Mcost) values ('Napa500', 'Fever reducer', 400)

III. insert into Medicine (Mname, Mtype, Mcost) values ('Monas10', 'Treatment of asthma', 600)

IV. insert into Medicine (Mname, Mtype, Mcost) values ('Sergel20', 'Gastric suppressor', 500)

V. insert into Medicine (Mname, Mtype, Mcost) values ('Effervescent650', 'Pain reliever', 300)

VI. insert into Medicine (Mname, Mtype, Mcost) values ('Cyclobenzaprine', 'Muscle relaxant', 700)

VII. insert into Medicine (Mname, Mtype, Mcost) values ('Benzodiazepines', 'Anti-anxity disorder', 800)

VIII. insert into Medicine (Mname, Mtype, Mcost) values ('Fenatanyl', 'Pain reliever', 600)

IX. insert into Medicine (Mname, Mtype, Mcost) values ('Citalopram', 'Anti-depressant', 700)

X. insert into Medicine (Mname, Mtype, Mcost) values ('Buprenorphine', 'Pain reliever', 500)

select * from Medicine

MNAME	MTYPE	MCOST
Fexo120	Anti-inflammatory	800
Napa500	Fever reducer	400
Monas10	Treatment of asthma	600
Sergel20	Gastric suppressor	500
Effervescent650	Pain reliever	300
Cyclobenzaprine	Muscle relaxant	700
Benzodiazepines	Anti-anxity disorder	800
Fenatanyl	Pain reliever	600
Citalopram	Anti-depressant	700
Buprenorphine	Pain reliever	500

12. Visitors

I. insert into Visitors (Vid, Vname, Vaddress, Vphone) values (vid.nextval, 'Kamal', 'Khulna', phone.nextval)

II. insert into Visitors (Vid, Vname, Vaddress, Vphone) values (vid.nextval, 'Ahanaf', 'Mymensingh', phone.nextval)

III. insert into Visitors (Vid, Vname, Vaddress, Vphone) values (vid.nextval, 'Tahmid', 'Dhaka', phone.nextval)

IV. insert into Visitors (Vid, Vname, Vaddress, Vphone) values (vid.nextval, 'Mahim', 'Barishal', phone.nextval)

V. insert into Visitors (Vid, Vname, Vaddress, Vphone) values (vid.nextval, 'Rafi', 'Noakhali', phone.nextval)

VI. insert into Visitors (Vid, Vname, Vaddress, Vphone) values (vid.nextval, 'Preoti', 'Kustia', phone.nextval)

VII. insert into Visitors (Vid, Vname, Vaddress, Vphone) values (vid.nextval, 'Dihan', 'Mymensingh', phone.nextval)

VIII. insert into Visitors (Vid, Vname, Vaddress, Vphone) values (vid.nextval, 'Souharda', 'Mymensingh', phone.nextval)

IX. insert into Visitors (Vid, Vname, Vaddress, Vphone) values (vid.nextval, 'Ishan', 'Dhaka', phone.nextval)

X. insert into Visitors (Vid, Vname, Vaddress, Vphone) values (vid.nextval, 'Shurid', 'Rangpur', phone.nextval)

select * from Visitors

VID	VNAME	VADDRESS	VPHONE
40001	Kamal	Khulna	1700000043
40002	Ahanaf	Mymensingh	1700000044
40003	Tahmid	Dhaka	1700000045
40004	Mahim	Barishal	1700000046
40005	Rafi	Noakhali	1700000047
40006	Preoti	Kustia	1700000048
40007	Dihan	Mymensingh	1700000049
40008	Souharda	Mymensingh	1700000050
40009	Ishan	Dhaka	1700000051
40010	Shurid	Rangpur	1700000052

13. TMP

I. insert into TMP (TMPid, Pid, Tid, Mname) values (tmpid.nextval, 13001, 10001, 'Fexo120')

II. insert into TMP (TMPid, Pid, Tid, Mname) values (tmpid.nextval, 13002, 10002, 'Napa500')

III. insert into TMP (TMPid, Pid, Tid, Mname) values (tmpid.nextval, 13003, 10003, 'Monas10')

IV. insert into TMP (TMPid, Pid, Tid, Mname) values (tmpid.nextval, 13004, 10004, 'Sergel20')

V. insert into TMP (TMPid, Pid, Tid, Mname) values (tmpid.nextval, 13005, 10005, 'Effervescent650')

VI. insert into TMP (TMPid, Pid, Tid, Mname) values (tmpid.nextval, 13006, 10006, 'Cyclobenzaprine')

VII. insert into TMP (TMPid, Pid, Tid, Mname) values (tmpid.nextval, 13007, 10007, 'Benzodiazepines')

VIII. insert into TMP (TMPid, Pid, Tid, Mname) values (tmpid.nextval, 13008, 10008, 'Fenatanyl')

IX. insert into TMP (TMPid, Pid, Tid, Mname) values (tmpid.nextval, 13009, 10009, 'Citalopram')

X. insert into TMP (TMPid, Pid, Tid, Mname) values (tmpid.nextval, 13010, 10010, 'Buprenorphine')

select * from TMP

TMPID	PID	TID	MNAME
30001	13001	10001	Fexo120
30002	13002	10002	Napa500
30003	13003	10003	Monas10
30004	13004	10004	Sergel20
30005	13005	10005	Effervescent650
30006	13006	10006	Cyclobenzaprine
30007	13007	10007	Benzodiazepines
30008	13008	10008	Fenatanyl
30009	13009	10009	Citalopram

14. VP

I. insert into VP (VPid, Vid, Pid) values (vpid.nextval, 40001, 13001)
II. insert into VP (VPid, Vid, Pid) values (vpid.nextval, 40002, 13002)
III. insert into VP (VPid, Vid, Pid) values (vpid.nextval, 40003, 13003)
IV. insert into VP (VPid, Vid, Pid) values (vpid.nextval, 40004, 13004)
V. insert into VP (VPid, Vid, Pid) values (vpid.nextval, 40005, 13005)
VI. insert into VP (VPid, Vid, Pid) values (vpid.nextval, 40006, 13006)
VII. insert into VP (VPid, Vid, Pid) values (vpid.nextval, 40007, 13007)
VIII. insert into VP (VPid, Vid, Pid) values (vpid.nextval, 40008, 13008)
IX. insert into VP (VPid, Vid, Pid) values (vpid.nextval, 40009, 13009)
X. insert into VP (VPid, Vid, Pid) values (vpid.nextval, 40010, 13010)

select * from VP

VPID	VID	PID
14002	40001	13001
14003	40002	13002
14004	40003	13003
14005	40004	13004
14006	40005	13005
14007	40006	13006
14008	40007	13007
14009	40008	13008
14010	40009	13009

15. PA

I. insert into PA (PAid, Ano, Pid) values (paid.nextval, 501, 13001)
II. insert into PA (PAid, Ano, Pid) values (paid.nextval, 502, 13002)
III. insert into PA (PAid, Ano, Pid) values (paid.nextval, 503, 13003)
IV. insert into PA (PAid, Ano, Pid) values (paid.nextval, 504, 13004)
V. insert into PA (PAid, Ano, Pid) values (paid.nextval, 505, 13005)
VI. insert into PA (PAid, Ano, Pid) values (paid.nextval, 506, 13006)
VII. insert into PA (PAid, Ano, Pid) values (paid.nextval, 507, 13007)
VIII. insert into PA (PAid, Ano, Pid) values (paid.nextval, 508, 13008)
IX. insert into PA (PAid, Ano, Pid) values (paid.nextval, 509, 13009)
X. insert into PA (PAid, Ano, Pid) values (paid.nextval, 510, 13010)

select * from PA

PAID	ANO	PID
15002	501	13001
15003	502	13002
15004	503	13003
15005	504	13004
15006	505	13005
15007	506	13006
15008	507	13007
15009	508	13008
15010	509	13009

16. NR

I. insert into NR (NRid, Nid, Rno) values (nrid.nextval, 11001, 6001)
II. insert into NR (NRid, Nid, Rno) values (nrid.nextval, 11002, 6002)
III. insert into NR (NRid, Nid, Rno) values (nrid.nextval, 11003, 6003)
IV. insert into NR (NRid, Nid, Rno) values (nrid.nextval, 11004, 6004)
V. insert into NR (NRid, Nid, Rno) values (nrid.nextval, 11005, 6005)
VI. insert into NR (NRid, Nid, Rno) values (nrid.nextval, 11006, 6006)
VII. insert into NR (NRid, Nid, Rno) values (nrid.nextval, 11007, 6007)
VIII. insert into NR (NRid, Nid, Rno) values (nrid.nextval, 11008, 6008)
IX. insert into NR (NRid, Nid, Rno) values (nrid.nextval, 11009, 6009)
X. insert into NR (NRid, Nid, Rno) values (nrid.nextval, 11010, 6010)

select * from NR

NRID	NID	RNO
16001	11001	6001
16002	11002	6002
16003	11003	6003
16004	11004	6004
16005	11005	6005
16006	11006	6006
16007	11007	6007
16008	11008	6008
16009	11009	6009
16010	11010	6010

17. ARC

I. insert into ARC (ARCid, Rid, RCno, Ano) values (arcid.nextval, 10101, 700001, 501)
II. insert into ARC (ARCid, Rid, RCno, Ano) values (arcid.nextval, 10101, 700002, 502)
III. insert into ARC (ARCid, Rid, RCno, Ano) values (arcid.nextval, 10101, 700003, 503)
IV. insert into ARC (ARCid, Rid, RCno, Ano) values (arcid.nextval, 10101, 700004, 504)
V. insert into ARC (ARCid, Rid, RCno, Ano) values (arcid.nextval, 10101, 700005, 505)
VI. insert into ARC (ARCid, Rid, RCno, Ano) values (arcid.nextval, 10101, 700006, 506)
VII. insert into ARC (ARCid, Rid, RCno, Ano) values (arcid.nextval, 10101, 700007, 507)
VIII. insert into ARC (ARCid, Rid, RCno, Ano) values (arcid.nextval, 10101, 700008, 508)
IX. insert into ARC (ARCid, Rid, RCno, Ano) values (arcid.nextval, 10101, 700009, 509)
X. insert into ARC (ARCid, Rid, RCno, Ano) values (arcid.nextval, 10101, 700010, 510)

select * from ARC

ARCID	RID	RCNO	ANO
17001	10101	700001	501
17002	10101	700002	502
17003	10101	700003	503
17004	10101	700004	504
17005	10101	700005	505
17006	10101	700006	506
17007	10101	700007	507
17008	10101	700008	508
17009	10101	700009	509
17010	10101	700010	510

6. **Query Writing:**

Joining:

1. Select pname, pid, dname from patients p, doctors d where d.did = p.did

PNAME	PID	DNAME
Salam	13001	Dr. Nasrin Akter
Kalam	13002	Dr. Sayema Sultana
Siraj	13003	Dr. Parvin Ahmed
Sobhan	13004	Dr. Abul Bashar
Banik	13005	Dr. GMM Chisty
Pathik	13006	Dr. Abu Bakar
kaiser	13007	Dr. Jahedul Haque
Fahim	13008	Dr. Jannatul Adol
Nourin	13009	Dr. Humira Meghla

2. Select pname, pid, dname, rtype from patients p, doctors d, rooms r where d.did = p.did and r.rno = p.rno

PNAME	PID	DNAME	RTYPE
Salam	13001	Dr. Nasrin Akter	AC
Kalam	13002	Dr. Sayema Sultana	NON AC
Siraj	13003	Dr. Parvin Ahmed	NON AC
Sobhan	13004	Dr. Abul Bashar	NON AC
Banik	13005	Dr. GMM Chisty	NON AC
Pathik	13006	Dr. Abu Bakar	NON AC
kaiser	13007	Dr. Jahedul Haque	AC
Fahim	13008	Dr. Jannatul Adol	AC
Nourin	13009	Dr. Humira Meghla	AC

3. Select a.acost, m.mcost from appointments a, medicine m where m.mcost (+) = a.acost

ACOST	MCOST
400	400
400	400
600	600
500	500
500	500
500	500
500	500
500	500
600	600

4. Select p.pname || ‘ has an appointment with ’ || d.dname from patients p, doctors d where where d.did = p.did

P.PNAME||'HASANAPPOINTMENTWITH'||D.DNAME
Salam has an appointment with Dr. Nasrin Akter
Kalam has an appointment with Dr. Sayema Sultana
Siraj has an appointment with Dr. Parvin Ahmed
Sobhan has an appointment with Dr. Abul Bashar
Banik has an appointment with Dr. GMM Chisty
Pathik has an appointment with Dr. Abu Bakar
kaiser has an appointment with Dr. Jahedul Haque
Fahim has an appointment with Dr. Jannatul Adol
Nourin has an appointment with Dr. Humira Meghla

5. Select r.rno, p.pname from rooms r, patients p where p.rno=r.rno

RNO	PNAME
6001	Salam
6002	Kalam
6003	Siraj
6004	Sobhan
6005	Banik
6006	Pathik
6007	kaiser
6008	Fahim
6009	Nourin

Sub query:

1. select dname, dsalary from doctors where dsalary > (select dsalary from doctors where did=12005)

DNAME	DSALARY
Dr. Nasrin Akter	150000
Dr. Sayema Sultana	160000
Dr. Parvin Ahmed	170000
Dr. Abul Bashar	140000
Dr. Abu Bakar	150000
Dr. Jahedul Haque	150000
Dr. Jannatul Adol	190000
Dr. Humira Meghla	200000
Dr. Mehbuba Mim	210000

2. select nname, nsalary from nurses where nsalary < (select nsalary from nurses where nid=11010)

NNAME	NSALARY
Nasrin Akter	15000
Toslima Nasrin	11000
Noushin Anjum	15000
Nasrina Khatun	11000
Nusrat Ritu	11000
Rina Salma	12000
Tasnin Nafisa	16000

3. select dname, department from doctors where department = (select department from appointments where department='OT')

DNAME	DEPARTMENT
Dr. Parvin Ahmed	OT

4. select rname, rsalary from receptionists where rsalary > (select avg(rsalary) from receptionists)

RNAME	RSALARY
Jannatul Preoti	30000
Ibrahim Sahil	23000
Christopher Andrew	23000
Marjuk Mugdha	25000
Nadia Swarna	21000

5. select dname, dsalary, department from doctors where dsalary < (select avg(dsalary) from doctors) and department in (select department from doctors where dname='Dr. Abu Bakar')

DNAME	DSALARY	DEPARTMENT
Dr. Abu Bakar	150000	ENT
Dr. Nasrin Akter	150000	ENT

Single Row Function:

1. select upper(dname), department from doctors

UPPER(DNAME)	DEPARTMENT
DR. NASRIN AKTER	ENT
DR. SAYEMA SULTANA	GM
DR. PARVIN AHMED	OT
DR. ABUL BASHAR	CRD
DR. GMM CHISTY	NEURO
DR. ABU BAKAR	ENT
DR. JAHEDUL HAQUE	DNT
DR. JANNATUL ADOL	SKIN
DR. HUMIRA MEGHLA	OPT
DR. MEHBUBA MIM	GA

2. select lower(nname), nid from nurses

LOWER(NNAME)	NID
nasrin akter	11001
toslima nasrin	11002
noushin anjum	11003
nabiha tahsin	11004
susmita alam	11005
nasrina khatun	11006
nusrat ritu	11007
rina salma	11008
tasnin nafisa	11009
tamanna sultana	11010

3. select initcap(rcdetails) from records

INITCAP(RCDETAILS)
Diagonested With Ear Infection
Diagonested With Stage One Cancer
Diagonested With Broken Bones
Diagonested With Finger Infection
Diagonested With Skin Infection
Diagonested With Ligament Injury
Diagonested With Cardiac Arrest
Diagonested With Renal Failure
Diagonested With Eye Cataract
Diagonested With Abdominal Injury

Group Function:

1. select max(dsalary) from doctors

MAX(DSALARY)
210000

2. select min(nsalary) from nurses

MIN(NSALARY)
11000

3. select avg(rsalary) from receptionists

AVG(RSALARY)
20100

General Query

1. select rno, rtype, rcost from rooms where rtype = 'AC'

RNO	RTYPE	RCOST
6001	AC	5000
6007	AC	5000
6008	AC	5000
6009	AC	5000
6010	AC	5000

2. select dname, department, dsalary from doctors where dsalary > 120000

DNAME	DEPARTMENT	DSALARY
Dr. Nasrin Akter	ENT	150000
Dr. Sayema Sultana	GM	160000
Dr. Parvin Ahmed	OT	170000
Dr. Abul Bashar	CRD	140000
Dr. Abu Bakar	ENT	150000
Dr. Jahedul Haque	DNT	150000
Dr. Jannatul Adol	SKIN	190000
Dr. Humira Meghla	OPT	200000
Dr. Mehbuba Mim	GA	210000

3. select nname, nid from nurses

NNAME	NID
Nasrin Akter	11001
Toslima Nasrin	11002
Noushin Anjum	11003
Nabiha Tahsin	11004
Susmita Alam	11005
Nasrina Khatun	11006
Nusrat Ritu	11007
Rina Salma	11008
Tasnin Nafisa	11009
Tamanna Sultana	11010

View:

1. create view Medication as select mname, mtype from medicine

select * from Medication

MNAME	MTYPE
Fexo120	Anti-inflammatory
Napa500	Fever reducer
Monas10	Treatment of asthma
Sergel20	Gastric suppressor
Effervescent650	Pain reliever
Cyclobenzaprine	Muscle relaxant
Benzodiazepines	Anti-anxity disorder
Fenatanyl	Pain reliever
Citalopram	Anti-depressant
Buprenorphine	Pain reliever