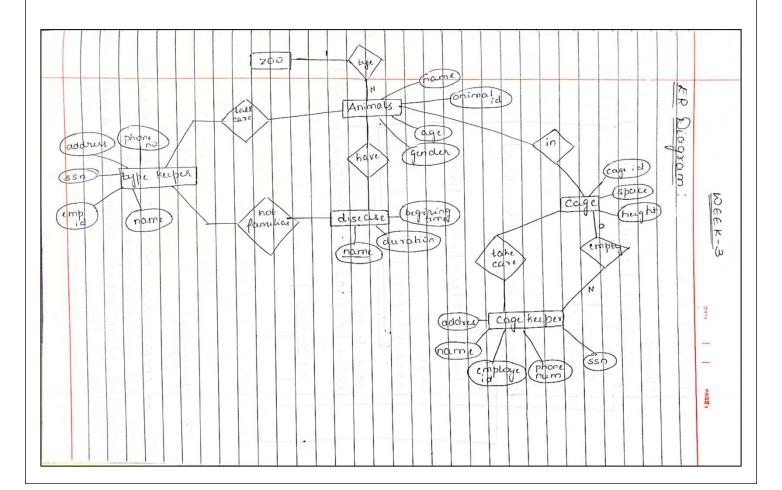
## Week3 - DBMS LAB POSTGRESQL

Name: Suhan B Revankar SRN: PES2UG19CS412

Section: G SECTION

## **Draw ER Diagram for the following: 10 marks**

The Bannerghatta Biologiical Zoo has many types of animals. Every type has a unique name. Every animal of the same type has a unique animal ID. Animals in two types may have the same animal ID. Animals also have age and gender. Animals may have diseases. The beginning time and the duration of a disease need to be recorded. A disease has a unique name. A type keeper takes care of only one type of animals. Every type may have many type keepers. A type keeper may or may not be familiar with diseases. But every disease must be handled by at least one type keeper. Type keepers have name, employee ID, ssn, address and phone number. All animals are in cages. Some cage may be empty. Every cage has a cage ID, space and height. A cage keeper may take care of many cages. Every non-empty cage must have at least one cage keeper. Empty cages don't need any cage keepers. Cage keepers have name, employee ID, ssn, address and phone number.



## Convert the ER diagram of zoo into Relational table 10 marks

Œ.	Relational Table.
	Animals.
	animalie age gender cage ID
	Ttype. I
· ·	3/ 3/ 2-3/
	namelia
	(33) (3) (3) (4) (4) (4) (4) (4)
	discase.
	I drame begining time duration
	1
	type keeper.
	name EID 88N addres phone no
	cage.
	cage ID space height
	cage keiper.
	name   EID SSN addres   Ph no   cage 201,
	id dname
-	

## <u>Write create statements for following considering constraints appropriately. Insert 5</u> values suitably 10marks

```
Doctor(d_id,d_name,d_phone)
Patient(p_id,p_name,diagnosis,age)
Medicine(med_id,med_name)
Prescription(p_id,d_id,med_id)
Bed(B_id,ward_no)
Bed_Patient(p_id,b_id,in_date,out_date)
```

```
HOSPITAL 307
med_id | med_name

4 | doocn
1 | calpot
3 | benadryl
5 | calpot
3 | benadryl
5 | calpot
1 | calpot
3 | benadryl
5 | calpot
1 | calpot
1 | calpot
2 | calpot
3 | benadryl
5 | calpot
1 | calpot
2 | calpot
3 | benadryl
5 | calpot
1 | calpot
2 | calpot
3 | benadryl
5 | calpot
1 | calpot
1 | calpot
2 | calpot
3 | calpot
3 | calpot
4 | calpot
5 | calpot
5 | calpot
6 | calpot
6 | calpot
7 | calpot
7
```

```
postgres=# CREATE DATABASE Hospital 307;
CREATE DATABASE
Time: 1053.150 ms
postgres=# \l
                              List of databases
     Name
             Owner
                         | Encoding | Collate | Ctype | Access privileges
              postgres | UTF8
                                      en_IN
hospital
                                                en IN
hospital_307
                postgres
                           UTF8
                                      en_IN
                                                en_IN
                           UTF8
                                      en IN
                                                en_IN
 postgres
                postgres
 template0
                postgres
                           UTF8
                                      en_IN
                                                en_IN
                                                        =c/postgres
                                                        postgres=CTc/postgres
                           UTF8
                                                en_IN
 template1
                                      en_IN
                                                        =c/postgres
                postgres
                                                        postgres=CTc/postgres
(5 rows)
postgres=#
```

```
postgres=# insert into doctor values(1,'xyz',345633);
INSERT 0 1
postgres=# insert into DOCTOR values(d_id,d_name,d_phone) values(2,'de',9876);
ERROR: syntax error at or near "values"
LINE 1: insert into DOCTOR values(d_id,d_name,d_phone) values(2,'de'...
```

```
postgres=# CREATE TABLE PRESCRIPTION(p_id int Not NULL,d_id int Not NULL,med_id int Not NULL,Primary key(p_id,d_id),Foreign key (p_id) references PATIE
NT (p_id),Foreign key (d_id) references DOCTOR(d_id),Foreign key(med_id) references MEDICINE(med_id));
CREATE TABLE
postgres=#
```

```
postgres=# CREATE TABLE DOCTOR(d_id int Not NULL,d_name varchar(20) Not NULL,d_phone int,Primary key(d_id));

CREATE TABLE
postgres=# CREATE TABLE PATIENT(p_id int Not NULL,p_name varchar(20) Not NULL,diagnosis int,age int,Primary key(p_id));

CREATE TABLE
postgres=# CREATE TABLE MEDICINE(med_id int Not NULL,med_name varchar(20) Not NULL,Primary key(med_id));

CREATE TABLE

LINE 1: CREATE TABLE DOCTOR(d_id int Not NULL,d_name varhar(20) Not ...

postgres=# CREATE TABLE DOCTOR(d_id int Not NULL,d_name varchar(20) Not NULL,d_phone int,Primary key(d_id));

CREATE TABLE
postgres=# Table
postgres=# Table
```

```
postgres=# CREATE DATABASE hospital;
CREATE DATABASE
postgres=# /c hospital
postgres-# CREATE TABLE hospital;
ERROR: syntax error at or near "/"
LINE 1: /c hospital
postgres=# \c
You are now connected to database "postgres" as user "postgres".
```

```
"public.doctor'
Type
                          Table
                                                                       I Modifiers
  Column
  d_id | integer
d_name | character varying(20)
d_phone | integer
d_phone | Lifteger
Indexes:
"doctor_pkey" PRIMARY KEY, btree (d_id)
Referenced by:
TABLE "prescription" CONSTRAINT "prescription_d_id_fkey" FOREIGN KEY (d_id) REFERENCES doctor(d_id)
 hospital_307=# select * from DOCTOR;
HOSPITAL_307
d_id | d_name | d_phone
1 | xyz
(1 row)
                              345633
Time: 0.705 ms
hospital_307=# insert into doctor(d_id,d_name,d_phone) values(2,'de',9876);
INSERT 0 1
Time: 19.444 ms
hospital_307=# insert into doctor(d_id,d_name,d_phone) values(3,'se',1111);
INSERT 0 1
Time: 35.464 ms
hospital_307=# select * from DOCTOR;
HOSPITAL_307
d_id | d_name | d_phone
        1 | xyz
2 | de
3 | se
                                     345633
                                           9876
1111
 (3 rows)
 Time: 0.535 ms
Time: 0.535 ms
hospital_307=# insert into doctor(d_id,d_name,d_phone) values(4,'pq',3990);
INSERT 0 1
Time: 20.607 ms
hospital_307=# select * from DOCTOR;
HOSPITAL_307
d_id | d_name | d_phone
                                       345633
         1 | xyz
2 | de
                                           9876
1111
                DQ
                                           3990
Time: 0.455 ms
hospital_307=#
```