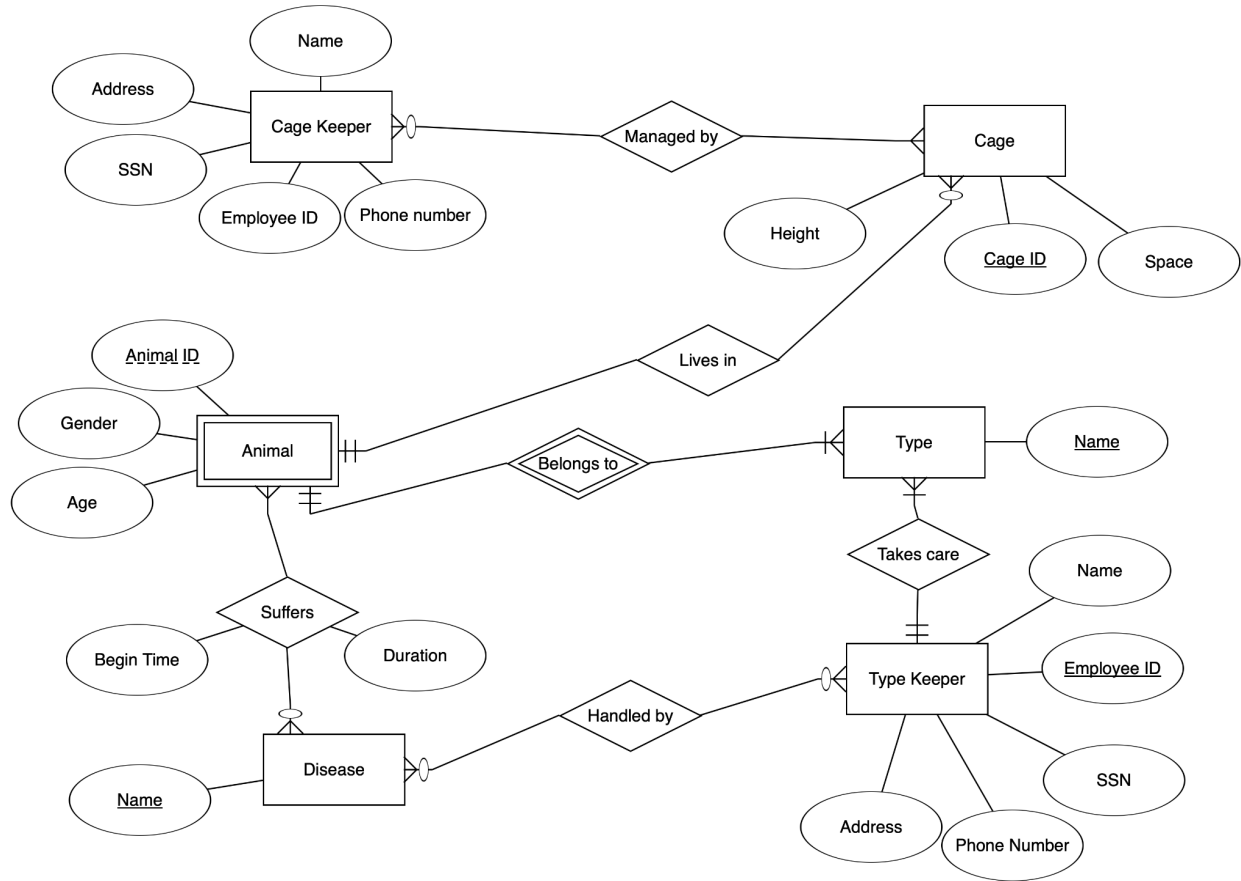


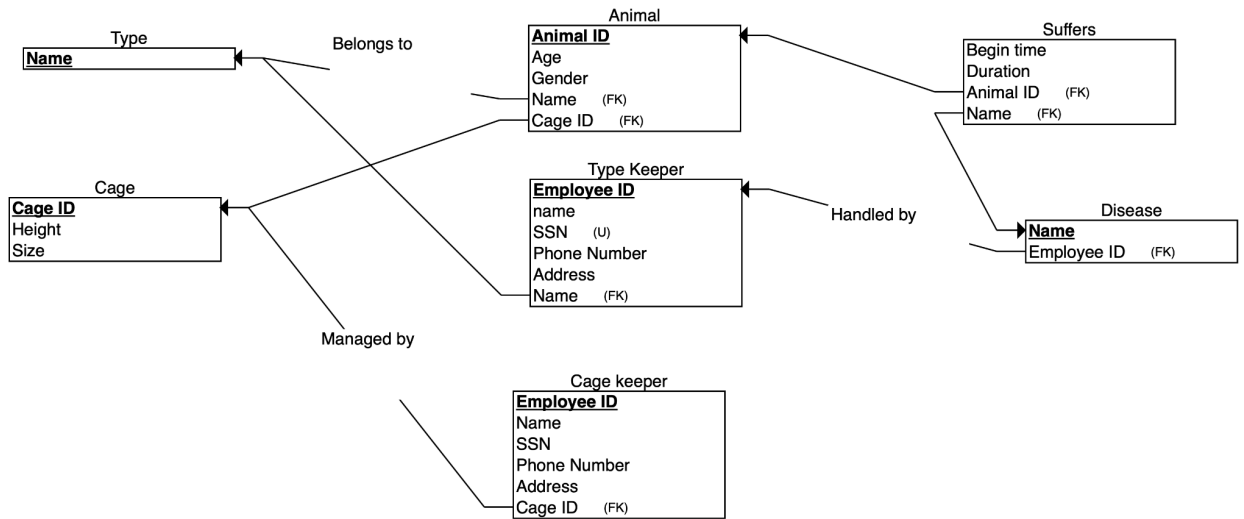
DBMS LAB Week 3

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1. ER Diagram



2. Relational Table



3. Postgres

```

naren=# create database hospital;
CREATE DATABASE
naren=# \c hospital
You are now connected to database "hospital" as user "naren".
  
```

Creating Tables Doctor

```

hospital=# create table Doctor(d_id integer not null,d_name varchar(30) not null
, d_phone integer not null, PRIMARY KEY(d_id));
CREATE TABLE
hospital=# \d doctor
           Table "public.doctor"
  Column   |      Type      | Collation | Nullable | Default
-----|-----|-----|-----|-----
 d_id      | integer         |           | not null |
 d_name    | character varying(30) |           | not null |
 d_phone   | integer         |           | not null |
Indexes:
    "doctor_pkey" PRIMARY KEY, btree (d_id)
  
```

Patient

```

DROP TABLE
hospital=# create table Patient(p_id integer not null,p_name varchar(30) not null, diagnosis varchar(50), age char(2) not null, PRIMARY KEY(p_id));
CREATE TABLE
hospital=# \d Patient
               Table "public.patient"
   Column   |      Type      | Collation | Nullable | Default
-----+-----+-----+-----+-----
 p_id      | integer        |           | not null |
 p_name    | character varying(30) |           | not null |
 diagnosis  | character varying(50) |           |          |
 age       | character(2)    |           | not null |
Indexes:
    "patient_pkey" PRIMARY KEY, btree (p_id)

```

Medicine

```

hospital=# create table Medicine(med_id integer not null, med_name varchar(30) not null, PRIMARY KEY(med_id));
CREATE TABLE
hospital=# \d Medicine
               Table "public.medicine"
   Column   |      Type      | Collation | Nullable | Default
-----+-----+-----+-----+-----
 med_id    | integer        |           | not null |
 med_name  | character varying(30) |           | not null |
Indexes:
    "medicine_pkey" PRIMARY KEY, btree (med_id)

```

Prescription

```

hospital=# create table Prescription(p_id integer not null,d_id integer not null, med_id integer not null,PRIMARY KEY(p_id));
CREATE TABLE
hospital=# alter table Prescription add constraint fk foreign key(d_id) references doctor(d_id);
ALTER TABLE
hospital=# \d prescription
               Table "public.prescription"
   Column | Type | Collation | Nullable | Default
-----+-----+-----+-----+-----
 p_id    | integer |           | not null |
 d_id    | integer |           | not null |
 med_id  | integer |           | not null |
Indexes:
    "prescription_pkey" PRIMARY KEY, btree (p_id)
Foreign-key constraints:
    "fk" FOREIGN KEY (d_id) REFERENCES doctor(d_id)

```

Bed

```
hospital=# create table bed(b_id integer not null,ward_no char(2) not null);
CREATE TABLE
```

```
hospital=# alter table bed add constraint pk primary key(b_id);
ALTER TABLE
hospital=#
```

```
hospital=# \d bed
          Table "public.bed"
  Column |      Type      | Collation | Nullable | Default
-----+-----+-----+-----+-----
  b_id   | integer        |           | not null |
  ward_no | character(2)   |           | not null |
Indexes:
    "pk" PRIMARY KEY, btree (b_id)
```

Bed_patient

```
hospital=# create table bed_patient(p_id integer not null,b_id integer not null
,in_date varchar(10) not null,out_date varchar(10) not null);
CREATE TABLE
hospital=# alter table bed_patient add constraint fk foreign key(b_id) reference
s bed(b_id);
ALTER TABLE
hospital=# alter table bed_patient add constraint fk foreign key(p_id) reference
s patient(p_id);
```

```
hospital=# alter table bed_patient add constraint fk1 foreign key(b_id) referenc
es bed(b_id);
ALTER TABLE
hospital=# \d bed_patient
          Table "public.bed_patient"
  Column |      Type      | Collation | Nullable | Default
-----+-----+-----+-----+-----
  p_id   | integer        |           | not null |
  b_id   | integer        |           | not null |
  in_date | character varying(10) |           | not null |
  out_date | character varying(10) |           | not null |
Foreign-key constraints:
    "fk" FOREIGN KEY (b_id) REFERENCES bed(b_id)
    "fk1" FOREIGN KEY (b_id) REFERENCES bed(b_id)
```

Inserting into table

Doctor

```
hospital=# insert into doctor values(1,'Naren',999999991);
ERROR:  integer out of range
hospital=# insert into doctor values(1,'Naren',999999991);
INSERT 0 1
hospital=# insert into doctor values(2,'Abhishek',999999992);
INSERT 0 1
hospital=# insert into doctor values(3,'Abdul',999999993);
INSERT 0 1
hospital=# insert into doctor values(4,'Alex',999999994);
INSERT 0 1
hospital=# insert into doctor values(5,'Advit',999999995);
INSERT 0 1
hospital=# select * from doctor
hospital=# ;
 d_id | d_name | d_phone
-----+-----+-----
  1 | Naren  | 999999991
  2 | Abhishek | 999999992
  3 | Abdul  | 999999993
  4 | Alex   | 999999994
  5 | Advit  | 999999995
(5 rows)
```

Patient

```
hospital=# insert into patient values(1,'Leela','typhoid','34');
INSERT 0 1
hospital=# insert into patient values(2,'Vrinda','Cancer','40');
INSERT 0 1
hospital=# insert into patient values(3,'Basavaraj','Fever','44');
INSERT 0 1
hospital=# insert into patient values(4,'Veena','Fracture','50');
INSERT 0 1
hospital=# insert into patient values(5,'Sidhu','Memory lose','55');
INSERT 0 1
hospital=# select * from patient
hospital=# ;
 p_id | p_name | diagnosis | age
-----+-----+-----+----
  1 | Leela  | typhoid   | 34
  2 | Vrinda | Cancer    | 40
  3 | Basavaraj | Fever    | 44
  4 | Veena  | Fracture  | 50
  5 | Sidhu  | Memory lose | 55
(5 rows)
```

Medicine

```

hospital=# insert into medicine values(1,'Dolo');
INSERT 0 1
hospital=# insert into medicine values(2,'Paracetamol');
INSERT 0 1
hospital=# insert into medicine values(3,'Crosin');
INSERT 0 1
hospital=# insert into medicine values(4,'Bruefin');
INSERT 0 1
hospital=# insert into medicine values(5,'Covaxxin');
INSERT 0 1
hospital=# select * from medicine
hospital-# ;
 med_id | med_name
-----+-----
      1 | Dolo
      2 | Paracetamol
      3 | Crosin
      4 | Bruefin
      5 | Covaxxin
(5 rows)

```

Prescription

```

hospital=# insert into prescription values(1,3,2);
INSERT 0 1
hospital=# insert into prescription values(2,2,5);
INSERT 0 1
hospital=# insert into prescription values(3,1,4);
INSERT 0 1
hospital=# insert into prescription values(4,5,1);
INSERT 0 1
hospital=# insert into prescription values(5,4,3);
INSERT 0 1
hospital=# select * from prescription
hospital-# ;
 p_id | d_id | med_id
-----+-----+-----
     1 |     3 |      2
     2 |     2 |      5
     3 |     1 |      4
     4 |     5 |      1
     5 |     4 |      3
(5 rows)

```

Bed

```

hospital=# insert into bed values(1,'1A');
INSERT 0 1
hospital=# insert into bed values(2,'1B');
INSERT 0 1
hospital=# insert into bed values(3,'2C');
INSERT 0 1
hospital=# insert into bed values(4,'2A');
INSERT 0 1
hospital=# insert into bed values(5,'3D');
INSERT 0 1
hospital=# select * from bed
hospital=# ;
  b_id | ward_no
-----+-----
    1 | 1A
    2 | 1B
    3 | 2C
    4 | 2A
    5 | 3D
(5 rows)

```

Bed_patient

```

hospital=# insert into bed_patient values(1,3,'1-2-2024','2-2-2025');
INSERT 0 1
hospital=# insert into bed_patient values(2,2,'1-4-2023','2-5-2023');
INSERT 0 1
hospital=# insert into bed_patient values(3,1,'1-4-2021','2-1-2022');
INSERT 0 1
hospital=# insert into bed_patient values(4,5,'10-4-2022','2-5-2022');
INSERT 0 1
hospital=# insert into bed_patient values(5,4,'31-4-2021','1-5-2022');
INSERT 0 1
hospital=# select * from bed_patient
;
  p_id | b_id | in_date | out_date
-----+-----+-----+-----
    1 |    3 | 1-2-2024 | 2-2-2025
    2 |    2 | 1-4-2023 | 2-5-2023
    3 |    1 | 1-4-2021 | 2-1-2022
    4 |    5 | 10-4-2022 | 2-5-2022
    5 |    4 | 31-4-2021 | 1-5-2022
(5 rows)

```