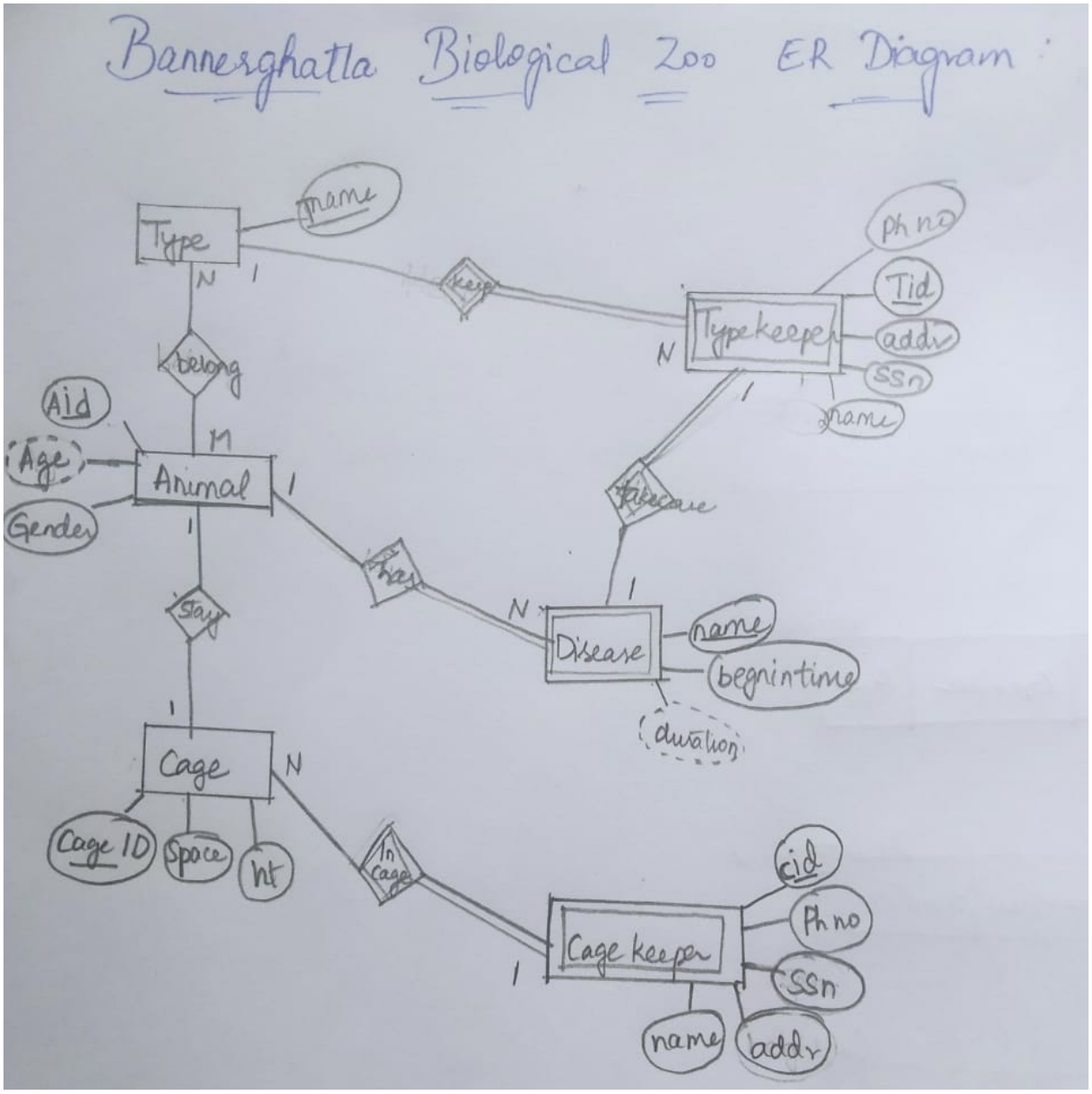
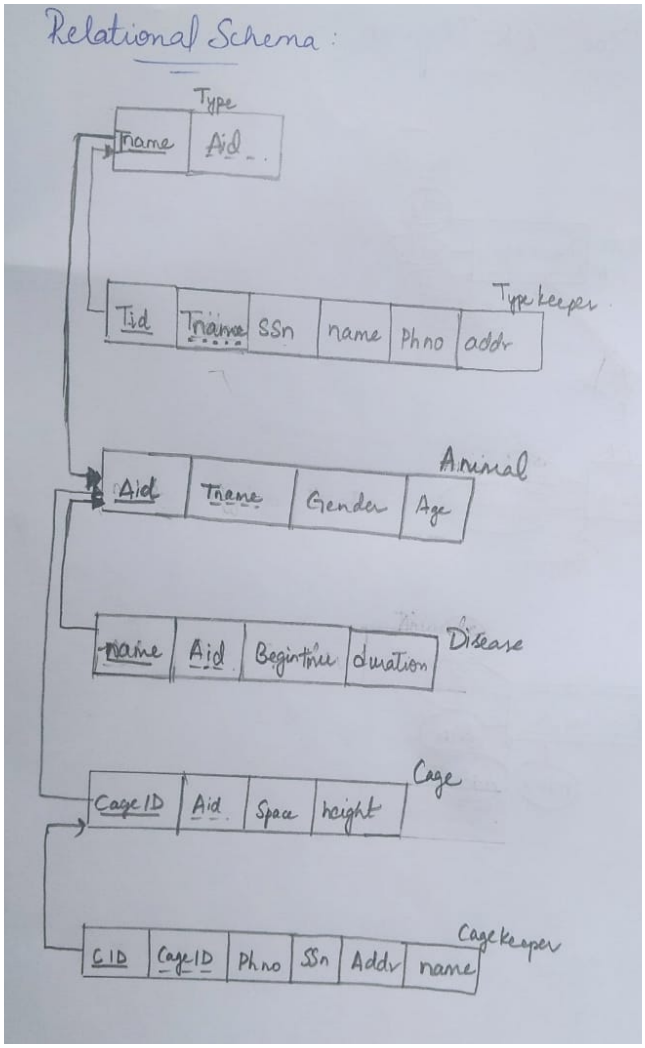
DBMS-LAB3(UE19CS304)

NAME: SATHI SREYAHSRI
SRN: PES1UG19CS434

TASK1:





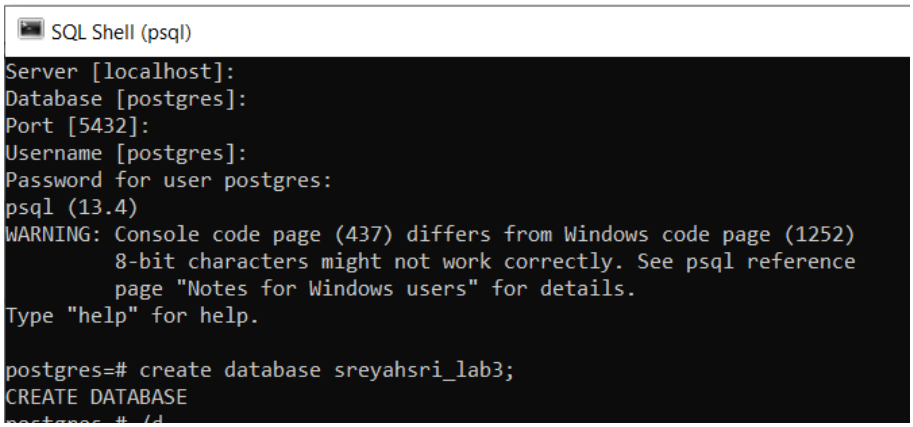
ENTITIES used here are:

1. Animals
2. Type
3. TypeKeeper-weak
4. Disease-weak
5. Cage
6. CageKeeper-weak

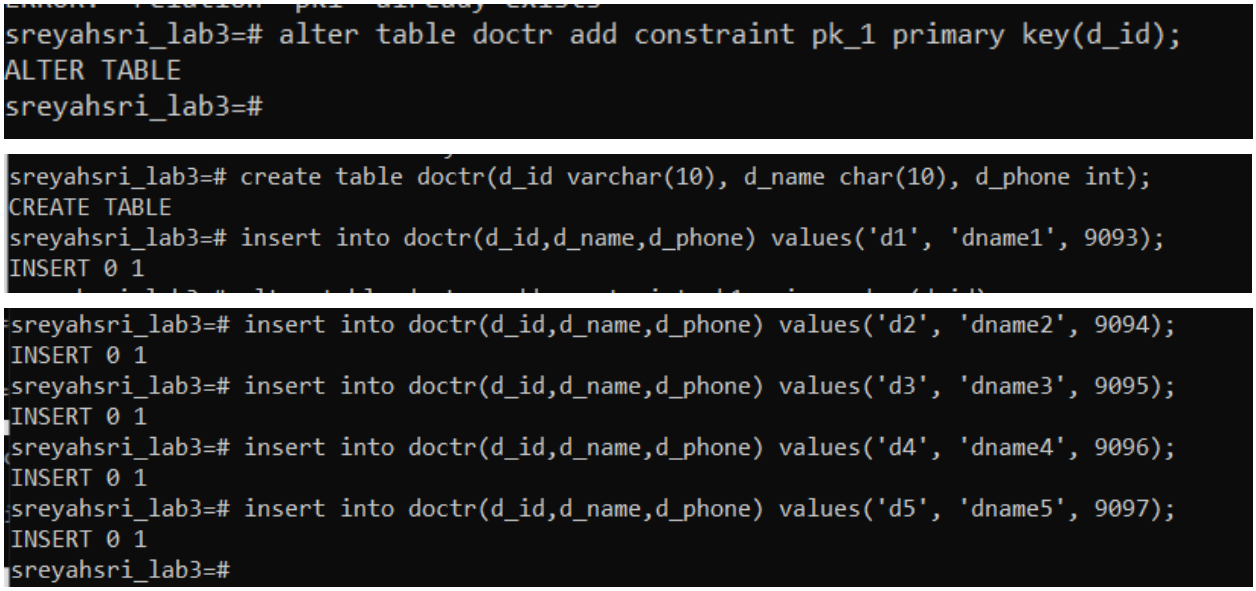
Any number of animals can belong to any number of types(for example: crocodile belongs to both land and aquatic). An animal is a strong entity because without an animal there is no Zoo. An animal may or may not have the disease, so Disease is a weak entity. A TypeKeeper exists only if there is an animal has a disease, so he/she is also a weak entity. A cage keeper exists only if there is an animal in the cage, so he/she is also a weak entity. But a cage can be empty.

TASK2:

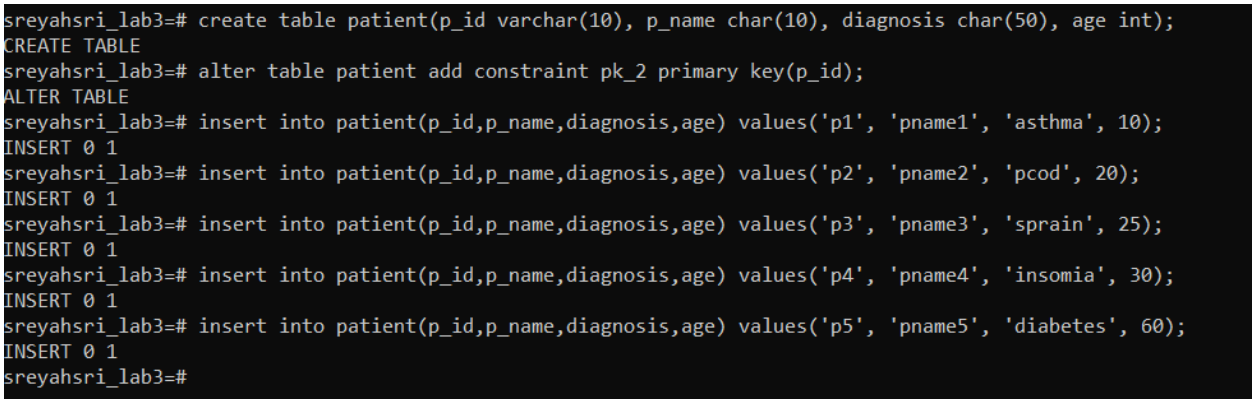
IMG1: creating a database with name sreyahsri_lab3



IMG 2:



IMG 3:



IMG 4:

```
sreyahsri_lab3=# create table medicine(med_id varchar(10), med_name varchar(50));
CREATE TABLE
sreyahsri_lab3=# alter table medicine add constraint pk_3 primary key(med_id);
ALTER TABLE
sreyahsri_lab3=# insert into medicine(med_id,med_name) values('m1', 'xyz200');
INSERT 0 1
sreyahsri_lab3=# insert into medicine(med_id,med_name) values('m2', 'ztg20');
INSERT 0 1
sreyahsri_lab3=# insert into medicine(med_id,med_name) values('m3', 'igh50x');
INSERT 0 1
sreyahsri_lab3=# insert into medicine(med_id,med_name) values('m4', 'lds4y');
INSERT 0 1
sreyahsri_lab3=# insert into medicine(med_id,med_name) values('m5', 'pfoe10r');
INSERT 0 1
sreyahsri_lab3=#
```

IMG5:

```
sreyahsri_lab3=# create table prescription(p_id varchar(10), d_id varchar(10), med_id varchar(10));
CREATE TABLE
sreyahsri_lab3=# alter table prescription add constraint fk_1 foreign key(p_id) references patient(p_id);
ALTER TABLE
sreyahsri_lab3=# alter table prescription add constraint fk_2 foreign key(d_id) references doctr(d_id);
ALTER TABLE
sreyahsri_lab3=# alter table prescription add constraint fk_3 foreign key(med_id) references medicine(med_id);
ALTER TABLE
sreyahsri_lab3=# \d prescription
                Table "public.prescription"
 Column |         Type          | Collation | Nullable | Default
--------+-----------------------+-----------+----------+---------
 p_id   | character varying(10) |           |          |
 d_id   | character varying(10) |           |          |
 med_id | character varying(10) |           |          |
Foreign-key constraints:
    "fk_1" FOREIGN KEY (p_id) REFERENCES patient(p_id)
    "fk_2" FOREIGN KEY (d_id) REFERENCES doctr(d_id)
    "fk_3" FOREIGN KEY (med_id) REFERENCES medicine(med_id)


sreyahsri_lab3=#
```

IMG6:

```
sreyahsri_lab3=# create table bed(b_id varchar(10), ward_no int);
CREATE TABLE
sreyahsri_lab3=# insert into bed(b_id,ward_no) values('bed1', 1);
INSERT 0 1
sreyahsri_lab3=# insert into bed(b_id,ward_no) values('bed2', 1);
INSERT 0 1
sreyahsri_lab3=# insert into bed(b_id,ward_no) values('bed3', 1);
INSERT 0 1
sreyahsri_lab3=# insert into bed(b_id,ward_no) values('bed5', 3);
INSERT 0 1
sreyahsri_lab3=# insert into bed(b_id,ward_no) values('bed9', 3);
INSERT 0 1
sreyahsri_lab3=# alter table bed add constraint pk_4 primary key(b_id);
ALTER TABLE
sreyahsri_lab3=#
```

IMG7:

```
sreyahsri_lab3=# create table bed_patient(p_id varchar(10), b_id varchar(10), in_date char(12), out_date char(12));
CREATE TABLE
sreyahsri_lab3=# alter table bed_patient add constraint fk_4 foreign key(p_id) references patient(p_id);
ALTER TABLE
sreyahsri_lab3=# alter table bed_patient add constraint fk_5 foreign key(b_id) references bed(b_id);
ALTER TABLE
sreyahsri_lab3=# insert into bed_patient(p_id,b_id,in_date,out_date) values('p1', 'bed9', '23-05-2021', '23-06-2021');
INSERT 0 1
sreyahsri_lab3=# \d bed_patient
                Table "public.bed_patient"
  Column  |         Type          | Collation | Nullable | Default
----------+-----------------------+-----------+----------+---------
 p_id     | character varying(10) |           |          |
 b_id     | character varying(10) |           |          |
 in_date  | character(12)         |           |          |
 out_date | character(12)         |           |          |
Foreign-key constraints:
    "fk_4" FOREIGN KEY (p_id) REFERENCES patient(p_id)
    "fk_5" FOREIGN KEY (b_id) REFERENCES bed(b_id)
```