PES UNIVERSITY, RR CAMPUS

DBMS LAB WEEK 3

ANANYA UPPAL

SECTION: A

DATE: 19th September

Task 1

Implement the given commands using PostgreSQL.

1. Create Database

```
SQL Shell (psql)

Server [localhost]:
Database [postgres]:
Port [5432]:

Jsername [postgres]:
Password for user postgres:
Dsql (13.4)

WARNING: Console code page (437) differs from Windows code page (1252)

8-bit characters might not work correctly. See psql reference page "Notes for Windows users" for details.

Type "help" for help.

Dostgres=# create database ana;
CREATE DATABASE
Dostgres=# \c ana
You are now connected to database "ana" as user "postgres".

ana=#
```

2. Create Tables

```
ana=# \d Doctor

Table "public.doctor"

Column | Type | Collation | Nullable | Default

d_id | character varying(5) | | |
d_name | character varying(50) | | |
d_phone | character varying(12) | |
```

```
ana=# CREATE TABLE Bed_Patient( p_id VARCHAR(5), B_id VARCHAR(5), in_date date, out_date date);ALTER TABLE B ed_Patient ADD PRIMARY KEY (p_id);ALTER TABLE Bed_Patient ALTER COLUMN B_id SET NOT NULL;ALTER TABLE Bed_Patient ADD FOR EIGN KEY (p_id) REFERENCES Patient (p_id);ALTER TABLE Bed_Patient ADD FOREIGN KEY (B_id) REFERENCES Bed (B_id);
CREATE TABLE
ALTER TABLE
ALTER TABLE
ALTER TABLE
ALTER TABLE
ana=# \d Patient
                                  Table "public.patient"
                                                        | Collation | Nullable | Default
  Column
                                 Type
                character varying(5)
 p id
                                                                            not null
                   character varying(50)
  p_name
  diagnosis | character varying(100)
  age
                   smallint
Indexes:
      "patient_pkey" PRIMARY KEY, btree (p_id)
Referenced by:

TABLE "bed_patient" CONSTRAINT "bed_patient_p_id_fkey" FOREIGN KEY (p_id) REFERENCES patient(p_id)

TABLE "bed_patient" CONSTRAINT "bed_patient_p_id_fkey" FOREIGN KEY (p_id) REFERENCES patient(p_id)
      TABLE "prescription" CONSTRAINT "prescription_p_id_fkey" FOREIGN KEY (p_id) REFERENCES patient(p_id)
```

```
ana=# \d Patient
                              Table "public.patient"
  Column
                                             | Collation | Nullable | Default
                             Type
 p_id | character varying(5)
p_name | character varying(50)
diagnosis | character varying(100)
age | smallint
                                                                  not null
 age
Indexes:
     "patient_pkey" PRIMARY KEY, btree (p_id)
Referenced by:
    TABLE "bed_patient" CONSTRAINT "bed_patient_p_id_fkey" FOREIGN KEY (p_id) REFERENCES patient(p_id)
TABLE "prescription" CONSTRAINT "prescription_p_id_fkey" FOREIGN KEY (p_id) REFERENCES patient(p_id)
ana=# \d Medicine
                            Table "public.medicine"
ype | Collation | Nullable | Default
  Column
                          Type
med_id
med_id | character varying(5) |
med_name | character varying(50) |
                                                                not null
Indexes:
      "medicine_pkey" PRIMARY KEY, btree (med_id)
Referenced by:
     TABLE "prescription" CONSTRAINT "prescription_med_id_fkey" FOREIGN KEY (med_id) REFERENCES medicine(med_id)
```

```
ana=# \d Bed
                      Table "public.bed"
                              | Collation | Nullable | Default
Column
                  Type
b id
         | character varying(5)
                                             not null
ward_no | smallint
Indexes:
    "bed_pkey" PRIMARY KEY, btree (b_id)
Referenced by:
   TABLE "bed_patient" CONSTRAINT "bed_patient_b_id_fkey" FOREIGN KEY (b_id) REFERENCES bed(b_id)
ana=# \d Bed_Patient
                   Table "public.bed_patient"
                           | Collation | Nullable | Default
 Column
                   Type
p_id
           character varying(5)
                                              not null
           character varying(5)
b_id
                                             not null
in_date
           date
out_date | date
Indexes:
    "bed_patient_pkey" PRIMARY KEY, btree (p_id)
Foreign-key constraints:
   "bed_patient_b_id_fkey" FOREIGN KEY (b_id) REFERENCES bed(b_id)
   "bed_patient_p_id_fkey" FOREIGN KEY (p_id) REFERENCES patient(p_id)
```

```
ana=# \d
           List of relations
Schema
             Name
                     Type
                                Owner
public | bed
                        table
                                postgres
public
         bed_patient
                        table
                               postgres
public
         doctor
                        table
                                postgres
         medicine
                        table
public
                                postgres
public
         patient
                        table
                                postgres
public | prescription | table | postgres
(6 rows)
```

```
ana=# INSERT INTO Doctor (d_id, d_name, d_phone) VALUES ('8', 'Darla Frossell', '946-679-8495');
INSERT 0 1
ana=#
```

3. Display Inserted Values

```
ana=# SELECT * FROM doctor;
d_id
             d_name
                            d_phone
       Deeanne Hakonsen | 685-921-7455
20050
37436
        Lucita Vairow
                          412-269-6919
        Darla Frossell
8
                          946-679-8495
847
        Billie Sliney
                         951-783-4989
35
        Harris Lowres
                         421-270-8105
(5 rows)
ana=# SELECT * FROM patient;
p_id |
          p_name
                                                diagnosis
                                                                               age
179
       Dmitri Wherrit
                         Eichhornia azurea (Sw.) Kunth
                                                                                  28
079
       Baryram Langmaid
                         Aspicilia polychroma (Anzi) Nyl.
                                                                                  42
108
       Christina Carbine | Mitella xintermedia Bruhin ex Small & Rydb. (pro sp.)
                                                                                  16
                          Ribes menziesii Pursh var. leptosmum (Coville) Jeps.
253
       Dean Dumbelton
                                                                                  20
2075
     Morgen Tsarovic
                         Astragalus crassicarpus Nutt. var. cavus Barneby
                                                                                  35
(5 rows)
```

```
ana=# SELECT * FROM medicine;
med_id
                             med_name
3335 | ED A-HIST

0331 | TRAMADOL HYDROCHLORIDE

58 | YES TO TOMATOES ROLLER BALL SPOT STICK

5364 | ThyroShield

72 | sotalol hydrochloride
(5 rows)
ana=# SELECT * FROM bed;
b_id | ward_no
9299
                 184
87113 |
28019 |
                917
                 886
 19852
                 374
                 53
 5882
(5 rows)
```

```
ana=# SELECT * FROM prescription;
p_id | d_id | med_id

179 | 37436 | 3335

079 | 37436 | 58

108 | 37436 | 72

253 | 8 | 5364

(4 rows)

ana=# SELECT * FROM bed_patient;
p_id | b_id | in_date | out_date

179 | 87113 | 2020-12-23 | 2021-09-11

079 | 28019 | 2020-11-16 | 2021-06-10

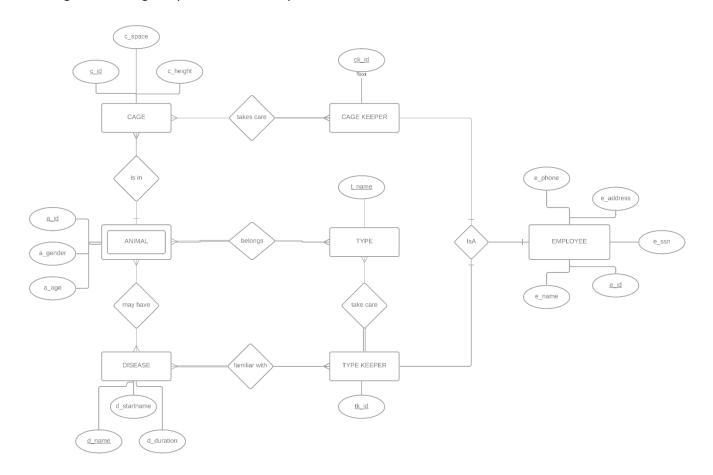
108 | 19852 | 2021-01-14 | 2021-03-05

253 | 5882 | 2020-12-08 | 2021-05-14

(4 rows)
```

Task 2

ERD diagram for the given problem case study.



TASK 3

Relation table for the previous question.

