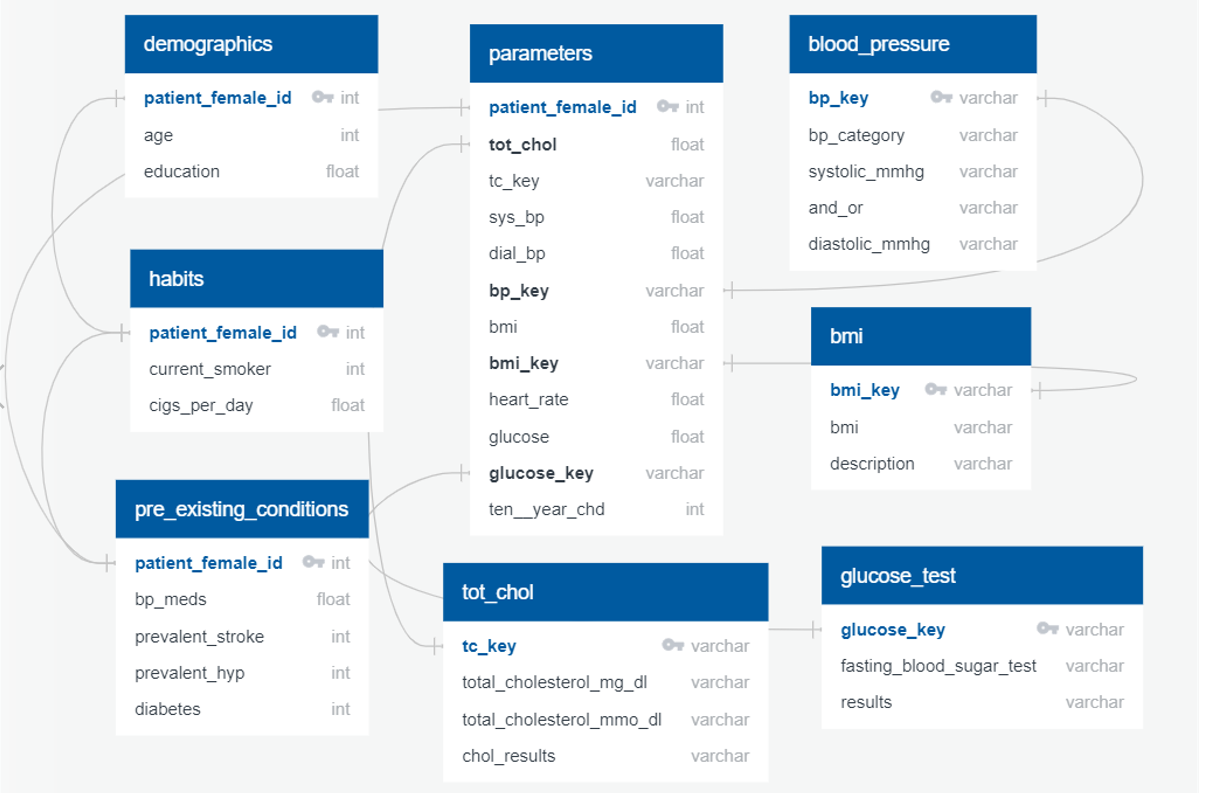
**DATABASE**

Topic: Female Heart Disease

Prepared ERD using QDB



posGrest pgAdmin database

* Created table based on the ERD prepared
* Loaded data into tables

CREATE TABLE "demographics" (

    "patient\_female\_id" int   NOT NULL,

    "age" int   NOT NULL,

    "education" float   NOT NULL,

    CONSTRAINT "pk\_demographics" PRIMARY KEY (

        "patient\_female\_id"

     )

);

CREATE TABLE "habits" (

    "patient\_female\_id" int   NOT NULL,

    "current\_smoker" int   NOT NULL,

    "cigs\_per\_day" float   NOT NULL,

    CONSTRAINT "pk\_habits" PRIMARY KEY (

        "patient\_female\_id"

     )

);

CREATE TABLE "pre\_existing\_conditions" (

    "patient\_female\_id" int   NOT NULL,

    "bp\_meds" float   NOT NULL,

    "prevalent\_stroke" int   NOT NULL,

    "prevalent\_hyp" int   NOT NULL,

    "diabetes" int   NOT NULL,

    CONSTRAINT "pk\_pre\_existing\_conditions" PRIMARY KEY (

        "patient\_female\_id"

     )

);

CREATE TABLE "parameters" (

    "patient\_female\_id" int   NOT NULL,

    "tot\_chol" float   NOT NULL,

    "tc\_key" varchar   NOT NULL,

    "sys\_bp" float   NOT NULL,

    "dial\_bp" float   NOT NULL,

    "bp\_key" varchar   NOT NULL,

    "bmi" float   NOT NULL,

    "bmi\_key" varchar   NOT NULL,

    "heart\_rate" float   NOT NULL,

    "glucose" float   NOT NULL,

    "glucose\_key" varchar   NOT NULL,

    "ten\_\_year\_chd" int   NOT NULL,

    CONSTRAINT "pk\_parameters" PRIMARY KEY (

        "patient\_female\_id"

     )

);

CREATE TABLE "blood\_pressure" (

    "bp\_key" varchar   NOT NULL,

    "bp\_category" varchar   NOT NULL,

    "systolic\_mmhg" varchar   NOT NULL,

    "and\_or" varchar   NOT NULL,

    "diastolic\_mmhg" varchar   NOT NULL,

    CONSTRAINT "pk\_blood\_pressure" PRIMARY KEY (

        "bp\_key"

     )

);

CREATE TABLE "glucose\_test" (

    "glucose\_key" varchar   NOT NULL,

    "fasting\_blood\_sugar\_test" varchar   NOT NULL,

    "results" varchar   NOT NULL,

    CONSTRAINT "pk\_glucose\_test" PRIMARY KEY (

        "glucose\_key"

     )

);

CREATE TABLE "bmi" (

    "bmi\_key" varchar   NOT NULL,

    "bmi" varchar   NOT NULL,

    "description" varchar   NOT NULL,

    CONSTRAINT "pk\_bmi" PRIMARY KEY (

        "bmi\_key"

     )

);

CREATE TABLE "tot\_chol" (

    "tc\_key" varchar   NOT NULL,

    "total\_cholesterol\_mg\_dl" varchar   NOT NULL,

    "total\_cholesterol\_mmo\_dl" varchar   NOT NULL,

    "chol\_results" varchar   NOT NULL,

    CONSTRAINT "pk\_tot\_chol" PRIMARY KEY (

        "tc\_key"

     )

);

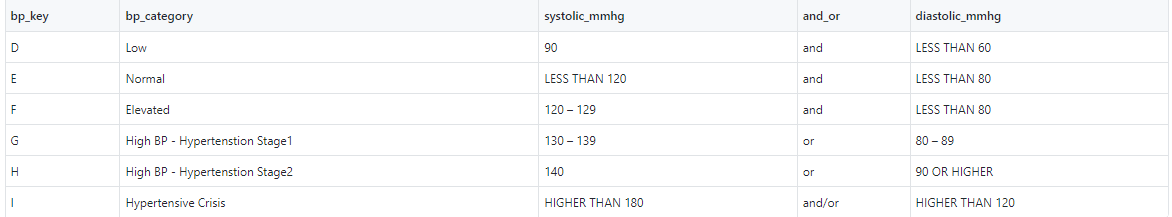
Joined tables created to produce new dataset that includes all data and additional datasets prepared

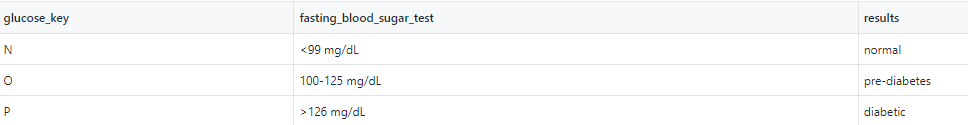
* Demographics.csv (age, education)
* Habits.csv (currentSmoker,cigsPerDay)
* Pre-existing\_conditions.csv (BP Meds, prevStroke, prevalHyp, diabetes)
* Parameters.csv (totChol, sysBP,diaBP, BMI, heartrate, glucose)

* Bmi\_pks.csv



* Bp\_pks.csv



* Glucose\_pks.csv
* Totlchol\_pks.csv

