SQL Practice Project -3 submitted by Sujit Sonar:

Patient Diagnosis Report.

DESCRIPTION

The data analyst of a hospital wants to store the patient diagnosis reports with the details of the doctors and the patients for good medical practice and continuity of care.

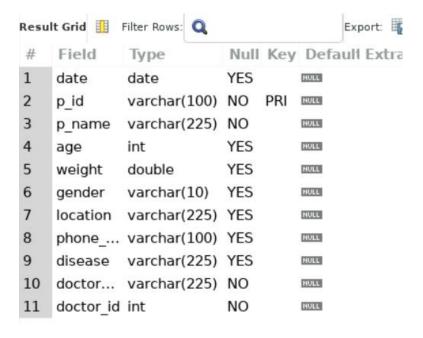
Objective:

The database design helps to retrieve, update, and modify the patient's details to keep track of the patient's health care routine.

Task to be performed:

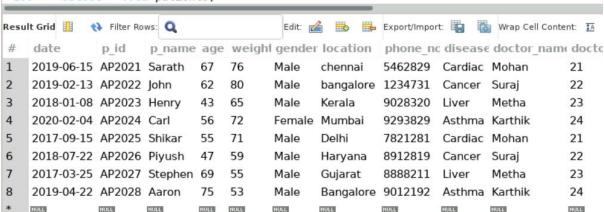
• Write a query to create a **patients table** with the fields such as date, patient id, patient name, age, weight, gender, location, phone number, disease, doctor name, and doctor id.

```
80 • ⊖ create table patients(
81
      date date,
82
      p_id int not null primary key,
83
      p name varchar(225) not null,
84
      age int,
85
      weight double,
86
      gender varchar(1),
87
      location varchar(225),
88
      phone no varchar(100),
89
      disease varchar(225),
90
      doctor_name varchar(225) not null,
91
      doctor id int not null) engine = InnoDB;
92
```

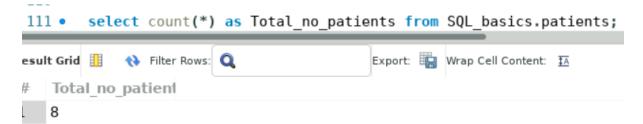


• Write a query to **insert** values into the **patients table**.

```
insert into patients
(date, p_id,p_name,age,weight,gender,location,phone_no,disease,doctor_name,doctor_id)
values
('2019-06-15','AP2021','Sarath',67,76,'Male','chennai','5462829','Cardiac','Mohan',21),
('2019-02-13','AP2022','John',62,80,'Male','bangalore','1234731','Cancer','Suraj',22),
('2018-01-08','AP2023','Henry',43,65,'Male','Kerala','9028320','Liver','Metha',23),
('2020-02-04','AP2024','Carl',56,72,'Female','Mumbai','9293829','Asthma','Karthik',24),
('2017-09-15','AP2025','Shikar',55,71,'Male','Delhi','7821281','Cardiac','Mohan',21),
('2018-07-22','AP2026','Piyush',47,59,'Male','Haryana','8912819','Cancer','Suraj',22),
('2017-03-25','AP2027','Stephen',69,55,'Male','Gujarat','8888211','Liver','Metha',23),
('2019-04-22','AP2028','Aaron',75,53,'Male','Bangalore','9012192','Asthma','Karthik',24);
```



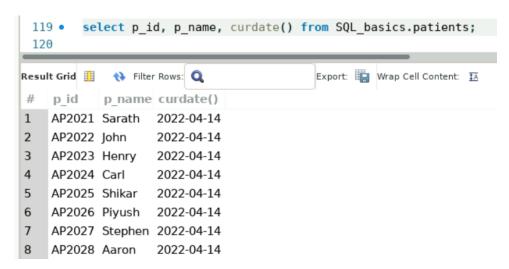
• Write a query to display the **total number of patients** in the table.



• Write a query to display the patient id, patient name, gender, and disease of the patient whose age is maximum.

```
select p id, p name, gender, disease, age from SQL basics.patients
13 •
14
      where age in
15
      (select max(age) from SQL basics.patients);
16
ult Grid
           N Filter Rows: Q
                                           Edit:
                                                        Export/Import:
  p id
          p_name gender disease age
 AP2028 Aaron
                         Asthma 75
                 Male
         NULL
 NULL
                 NULL
                         NULL
                                 NULL
```

• Write a query to display patient id and patient name with the **current date**.

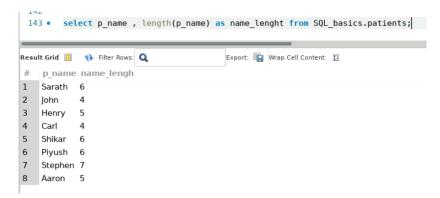


• Write a query to display the **old patient's name** and **new patient's name** in **uppercase**.

Assuming patients registered date > 2019-12-31 as new patients and rest as old patients

```
select date, upper(p name) as new patients name from patients
 136 •
         where date > '2019-12-31';
 137
Result Grid 🏭
              🙌 Filter Rows: 🔍
                                             Export: Wrap Cell Content: IA
               new patients nam
    date
    2020-02-04 CARL
         select date ,upper(p_name) as old_patients name from patients
 139 •
         where date <= '2019-12-31';
 140
Result Grid 🎚
              Filter Rows: Q
                                             Export: Wrap Cell Content: IA
    date
                old patients nam
1
    2019-06-15 SARATH
2
    2019-02-13 JOHN
3
    2018-01-08 HENRY
4
    2017-09-15 SHIKAR
5
    2018-07-22 PIYUSH
    2017-03-25 STEPHEN
6
    2019-04-22 AARON
```

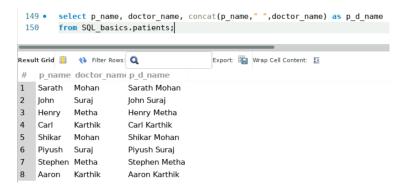
Write a query to display the patient's name along with the length of their name.



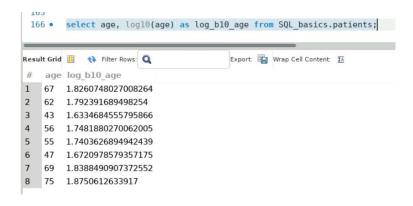
• Write a query to display the patient's name, and the **gender** of the patient must be mentioned as **M** or **F**.



• Write a query to **combine the names of the patient** and the doctor in a new column.



• Write a query to display the patients' age along with the **logarithmic value** (base 10) **of their age**.



• Write a query to **extract the year** from the given date in a separate column.



• Write a query to return **NULL** if the **patient's name and doctor's name are similar** else return the **patient's name**.

```
select p name, doctor name, if(p name=doctor name, null, p name) as checking
 155 •
 156
         from SQL basics.patients;
                                             Export: Wrap Cell Content: IA
Result Grid 👭
             🙌 Filter Rows: 🔍
    p name doctor name checking
1
    Sarath
            Mohan
                         Sarath
2
    John
             Suraj
                         John
3
   Henry
            Metha
                         Henry
    Carl
             Karthik
                         Carl
    Shikar
            Mohan
                         Shikar
    Piyush
             Suraj
                         Piyush
    Stephen Metha
                         Stephen
    Aaron
             Karthik
                         Aaron
```

• Write a query to return Yes if the patient's age is greater than 40 else return No.

```
select p_name, age, if(age > 40, 'Yes', 'No') as age_greater than 40
 158 •
 159
         from SQL basics.patients;
Result Grid 👭
              N Filter Rows: Q
                                               Export: Wrap Cell Content: IA
     p name age age greater than 4
1
    Sarath
             67
                  Yes
    John
2
             62
                  Yes
3
             43
    Henry
                  Yes
4
    Carl
             56
                  Yes
    Shikar
             55
                  Yes
             47
6
    Piyush
                  Yes
    Stephen 69
```

• Write a query to display the **doctor's duplicate name** from the table.

