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.

• 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.

create table patients

```
visiting_date date not null,
patient_id int not null,
patient_name varchar(45) not null,
Age int not null,
Weight int not null,
gender varchar(45) not null,
location varchar(45) not null,
phone_no int not null,
disease varchar(45) not null,
doctor_name varchar(45) not null,
doctor_id varchar(45) not null
```

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

```
insert into patients
```

(visiting_date,patient_id,patient_name,age,weight,gender,location,phone_no,disease,doctor_name,doctor_id) values

("2019-06-05","AP2021","Sarath","67","76","Male","chennai",70212559,"cardiac","Mohan","21");

insert into patients

(visiting_date,patient_id,patient_name,age,weight,gender,location,phone_no,disease,doctor_name,doctor_id) values

("2019-02-13", "AP2022", "John", "62", "80", "Male", "banglore", 70278959, "cancer", "Suraj", "22");

insert into patients

(visiting_date,patient_id,patient_name,age,weight,gender,location,phone_no,disease,doctor_name,doctor_id) values

("2018-01-18", "AP2023", "Henry", "43", "65", "Male", "Kerala", 70123559, "Liver", "Mehta", "23");

insert into patients

(visiting_date,patient_id,patient_name,age,weight,gender,location,phone_no,disease,doctor_name,doctor_id) values

("2020-04-02", "AP2024", "Carl", "56", "72", "Female", "Mumbai", 79874569, "Asthama", "Kartik", "24");

insert into patients

(visiting_date,patient_id,patient_name,age,weight,gender,location,phone_no,disease,doctor_name,doctor_id) values

("2017-09-15", "AP2025", "Shikar", "55", "71", "Male", "Delhi", 77212588, "cardiac", "Mohan", "21");

insert into patients

(visiting_date,patient_id,patient_name,age,weight,gender,location,phone_no,disease,doctor_name,doctor_id) values

("2018-07-22","AP2026","Piyush","47","59","Male","Haryana",88882559,"cancer","Suraj","22");

insert into patients

(visiting_date,patient_id,patient_name,age,weight,gender,location,phone_no,disease,doctor_name,doctor_id) values

("2017-03-25", "AP2027", "Stephen", "69", "55", "Male", "Gujrat", 70218888, "Liver", "Mehta", "23");

insert into patients

(visiting_date,patient_id,patient_name,age,weight,gender,location,phone_no,disease,doctor_name,doctor_id) values

("2019-04-22","AP2028","Aaron","75","53","Male","Banglore",22212559,"Asthama","Kartik","24");



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

select count(*) As Total_Patients from Patients;

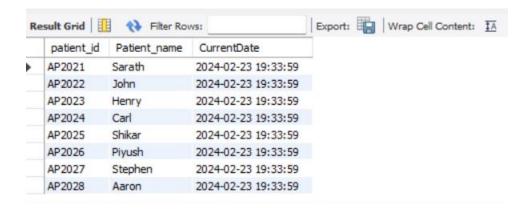


 Write a query to display the patient id, patient name, gender, and disease of the patient whose age is maximum.

select patient_id,Patient_name, gender,disease, max(age) AS Max_age from patients;

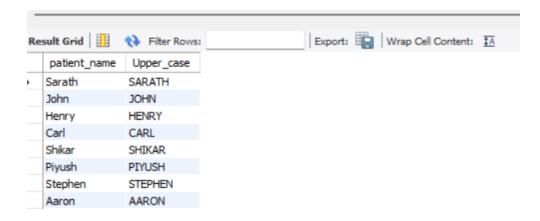
Write a guery to display patient id and patient name with the current date.

select patient_id,Patient_name, now() as CurrentDate from Patients;



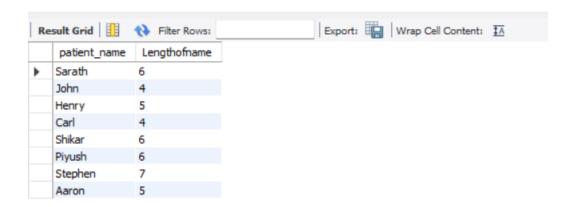
• Write a query to display the **old patient's name** and **new patient's name** in **uppercase**.

select patient_name,ucase(patient_name) as Upper_case from Patients;



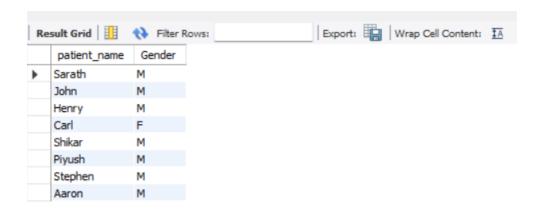
• Write a query to display the patient's name along with the length of their name.

select patient_name,length(patient_name) as Lengthofname from Patients;



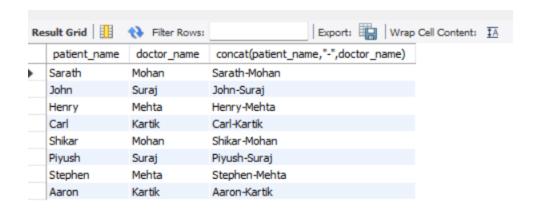
 Write a query to display the patient's name, and the gender of the patient must be mentioned as M or F.

select patient_name,mid(gender,1,1) as Gender from Patients;



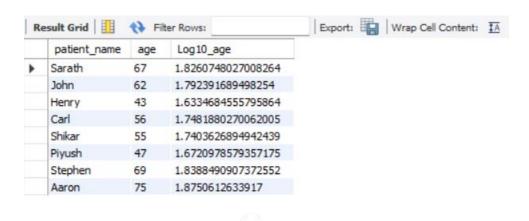
• Write a query to **combine the names of the patient** and the doctor in a new column.

select patient_name, doctor_name, concat(patient_name,"-",doctor_name) from Patients;



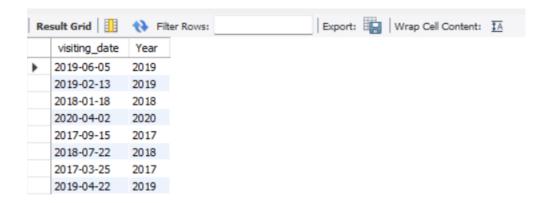
 Write a query to display the patients' age along with the logarithmic value (base 10) of their age.

select patient_name,age,log10(age) as Log10_age from Patients;



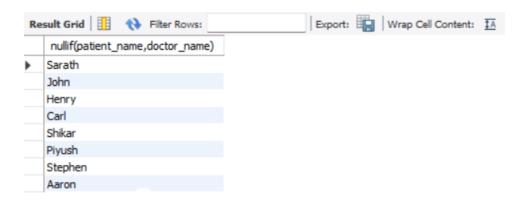
Write a query to extract the year from the given date in a separate column.

select visiting_date, year(visiting_date) as Year from Patients;



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

select nullif(patient_name,doctor_name) from Patients;



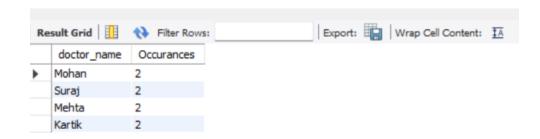
• Write a query to return Yes if the patient's age is greater than 40 else return No.

select age, IF(age>40,'Yes','No') As Agegreater from Patients;



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

select doctor_name, count(*) Occurances from patients group by doctor_name having count(*)>1;



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