

Q.1. 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(  
    date DATE not null  
    pid varchar (20) not null,  
    p_name varchar(20) not null,  
    age int not null,  
    weight int not null,  
    gender varchar(20) not null,  
    location varchar(20) not null,  
    phone_no int not null,  
    disease varchar(20) not null,  
    doctor_name varchar(20) not null,  
    doctor_id int not null,  
    primary key (pid));
```

```
MariaDB [patient_dignosis_report]> desc patients;
```

Field	Type	Null	Key	Default	Extra
date	date	NO		NULL	
pid	varchar(20)	NO	PRI	NULL	
p_name	varchar(20)	NO		NULL	
age	int(11)	NO		NULL	
weight	int(11)	NO		NULL	
gender	varchar(20)	NO		NULL	
location	varchar(20)	NO		NULL	
phone_no	int(11)	NO		NULL	
disease	varchar(20)	NO		NULL	
doctor_name	varchar(20)	NO		NULL	
doctor_id	int(11)	NO		NULL	

11 rows in set (0.231 sec)

Q.2. Write a query to insert values into the patients table.

insert into patients

(date,pid,p_name,age,weight,gender,location,phone_no,disease,doctor_name,doctor_id)

('2023-01-01', 1, 'Rahul Deshmukh', 30, 65, 'Male', 'Mumbai', '+919876543210', 'Common Cold', 'Dr. Patil', 201),

('2023-02-02', 2, 'Priya Joshi', 25, 48, 'Female', 'Pune', '+918765432109', 'Migraine', 'Dr. Desai', 202),

('2023-05-06', 3, 'Amit Kulkarni', 40, 68, 'Male', 'Satara', '+917654321098', 'Hypertension', 'Dr. Sharma', 203),

('2023-05-10', 4, 'Anjali Mane', 32, 59, 'Female', 'Karad', '+916543210987', 'Allergy', 'Dr. Khan', 204),

('2023-7-15', 5, 'Suresh Patil', 45, 78, 'Male', 'Mumbai', '+915432109876', 'Diabetes', 'Dr. Patel', 205),

('2023-09-22', 6, 'Neha Shah', 28, 58, 'Female', 'Pune', '+914321098765', 'Fever', 'Dr. Joshi', 206),

('2023-12-07', 7, 'Vikram Gokhale', 55, 82, 'Male', 'Satara', '+913210987654', 'Arthritis', 'Dr. Mehta', 207);

```
MariaDB [patient_diagnosis_report]> select * from patients;
```

date	pid	p_name	age	weight	gender	location	phone_no	disease	doctor_name	doctor_id
2023-01-01	1	Rahul Deshmukh	30	65	Male	Mumbai	2147483647	Common Cold	Dr. Patil	201
2023-02-02	2	Priya Joshi	25	48	Female	Pune	2147483647	Migraine	Dr. Desai	202
2023-05-06	3	Amit Kulkarni	40	68	Male	Satara	2147483647	Hypertension	Dr. Sharma	203
2023-05-10	4	Anjali Mane	32	59	Female	Karad	2147483647	Allergy	Dr. Khan	204
2023-07-15	5	Suresh Patil	45	78	Male	Mumbai	2147483647	Diabetes	Dr. Patel	205
2023-09-22	6	Neha Shah	28	58	Female	Pune	2147483647	Fever	Dr. Joshi	206
2023-12-07	7	Vikram Gokhale	55	82	Male	Satara	2147483647	Arthritis	Dr. Mehta	207

7 rows in set (0.706 sec)

Q.3. Write a query to display the total number of patients in the table.

select count(*) as total_patients from patients;

```
+-----+
| total_patients |
+-----+
|              7 |
+-----+
1 row in set (0.134 sec)
```

Q.4. Write a query to display the patient id, patient name, gender, and disease of the patient whose age is maximum.

```
select pid,p_name,gender,disease,max(age) as Max_age from patients;
```

pid	p_name	gender	disease	Max_age
1	Rahul Deshmukh	Male	Common Cold	55

Q.5. Write a query to display patient id and patient name with the current date.

```
select pid,p_name,now() as currentDate from patients;
```

pid	p_name	currentDate
1	Rahul Deshmukh	2024-02-26 17:48:34
2	Priya Joshi	2024-02-26 17:48:34
3	Amit Kulkarni	2024-02-26 17:48:34
4	Anjali Mane	2024-02-26 17:48:34
5	Suresh Patil	2024-02-26 17:48:34
6	Neha Shah	2024-02-26 17:48:34
7	Vikram Gokhale	2024-02-26 17:48:34

Q.6. Write a query to display the old patient's name and new patient's name in uppercase.

```
select p_name,ucase(p_name) as uppercase_newp_name from patients;
```

p_name	uppercase_newp_name
Rahul Deshmukh	RAHUL DESHMUKH
Priya Joshi	PRIYA JOSHI
Amit Kulkarni	AMIT KULKARNI
Anjali Mane	ANJALI MANE
Suresh Patil	SURESH PATIL
Neha Shah	NEHA SHAH
Vikram Gokhale	VIKRAM GOKHALE

Q.7. Write a query to display the patient's name along with the length of their name.

select p_name,length(p_name)as length_of_pname from patients;

p_name	length_of_pname
Rahul Deshmukh	14
Priya Joshi	11
Amit Kulkarni	13
Anjali Mane	11
Suresh Patil	12
Neha Shah	9
Vikram Gokhale	14

Q.8. Write a query to display the patient's name, and the gender of the patient must be mentioned as M or F.

select p_name,mid(gender,1,1) as gender from patients;

p_name	gender
Rahul Deshmukh	M
Priya Joshi	F
Amit Kulkarni	M
Anjali Mane	F
Suresh Patil	M
Neha Shah	F
Vikram Gokhale	M

Q.9. Write a query to combine the names of the patient and the doctor in a new column.

**select p_name,doctor_name,concat(p_name,doctor_name) as patient_docrtor_name
from patients;**

p_name	doctor_name	patient_docrtor_name
Rahul Deshmukh	Dr. Patil	Rahul DeshmukhDr. Patil
Priya Joshi	Dr. Desai	Priya JoshiDr. Desai
Amit Kulkarni	Dr. Sharma	Amit KulkarniDr. Sharma
Anjali Mane	Dr. Khan	Anjali ManeDr. Khan
Suresh Patil	Dr. Patel	Suresh PatilDr. Patel
Neha Shah	Dr. Joshi	Neha ShahDr. Joshi
Vikram Gokhale	Dr. Mehta	Vikram GokhaleDr. Mehta

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

select age, log10(age) as log_age from patients;

age	log_age
30	1.4771212547196624
25	1.3979400086720377
40	1.6020599913279623
32	1.505149978319906
45	1.6532125137753437
28	1.4471580313422192
55	1.7403626894942439

Q.11. Write a query to extract the year from the given date in a separate column.

select *, year(date) as year from patients;

date	pid	p_name	age	weight	gender	location	phone_no	disease	doctor_name	doctor_id	year
2023-01-01	1	Rahul Deshmukh	30	65	Male	Mumbai	2147483647	Common Cold	Dr. Patil	201	2023
2023-02-02	2	Priya Joshi	25	48	Female	Pune	2147483647	Migraine	Dr. Desai	202	2023
2023-05-06	3	Amit Kulkarni	40	68	Male	Satara	2147483647	Hypertension	Dr. Sharma	203	2023
2023-05-10	4	Anjali Mane	32	59	Female	Karad	2147483647	Allergy	Dr. Khan	204	2023
2023-07-15	5	Suresh Patil	45	78	Male	Mumbai	2147483647	Diabetes	Dr. Patel	205	2023
2023-09-22	6	Neha Shah	28	58	Female	Pune	2147483647	Fever	Dr. Joshi	206	2023
2023-12-07	7	Vikram Gokhale	55	82	Male	Satara	2147483647	Arthritis	Dr. Mehta	207	2023

Q.12. 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(p_name,doctor_name) from patients

nullif(p_name,doctor_name)
Rahul Deshmukh
Priya Joshi
Amit Kulkarni
Anjali Mane
Suresh Patil
Neha Shah
Vikram Gokhale

Q.13. 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 Agegreter40 from patients;

age	Agegreter40
30	No
25	No
40	No
32	No
45	Yes
28	No
55	Yes

Q.14. Write a query to display the doctor's duplicate name from the table?

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

Empty set (0.061 sec)