

```

1  create database patients;
2  use patients;
3
4  # QUERY 1
5  create table patients_table(
6  p_date date,
7  patient_id varchar(20),
8  patient_name char,
9  age int,
10 weight float,
11 gender char,
12 location char,
13 phone_number int,
14 disease char,
15 doctor_name char,
16 doctor_id int);
17
18 # QUERY   INSERTING VALUES IN TABLE
19
20 alter table patients_table modify p_date datetime;
21 alter table patients_table modify patient_name char(100);
22 alter table patients_table modify gender char(100),modify location char(100),modify
disease char(100),modify doctor_name char(100);
23
24 insert into patients_table (p_date,patient_id,patient_name,age,weight,gender,location,
phone_number,disease,doctor_name,doctor_id)
25 values
26 ('2019-06-15','AP2021','Sarath','67','76','Male','chennai','5462829','Cardiac','Mohan',
'21'),
27 ('2019-02-13','AP2022','John','62','80','Male','banglore','1234731','Cancer','Suraj','22'
),
28 ('2018-01-08','AP2023','Henry','43','65','Male','Kerala','9028320','Liver','Mehta','23'),
29 ('2020-02-4','AP2024','Carl','56','72','Female','Mumbai','9293829','Asthma','Karthik',
'24'),
30 ('2017-09-15','AP2025','Shikar','55','71','Male','Delhi','7821281','Cardiac','Mohan','21'
),
31 ('2018-07-22','AP2026','Piysuh','47','59','Male','Haryana','8912819','Cancer','Suraj',
'22'),
32 ('2017-03-25','AP2027','Stephen','69','55','Male','Gujarat','8888211','Liver','Mehta',
'23'),
33 ('2019-04-22','AP2028','Aaron','75','53','Male','Banglore','9012192','Asthma','Karthik',
'24');
34
35 select * from patients_table;
36 alter table patients_table modify p_date date;
37
38 # QUERY
39 select patient_name from patients_table
40 where length(patient_name);
41
42 #QUERY 4
43 SELECT patient_id, patient_name, gender,disease, MAX(age)
44 from patients_table;
45
46 # query 5
47 SELECT patient_id,patient_name,p_date from patients_table;
48
49 # Query 6
50 select patient_name as old_patient_name, upper(patient_name) as new_patient_name
51 from patients_table;
52
53 # Query 7
54 select patient_name , length(patient_name) as length_of_name from patients_table;
55
56 # QUERY 8
57 SELECT patient_name,
58 case when gender='Male' then 'M' when gender='Female' then 'F' end
59 from patients_table;
60

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61 #Query 9
62 select patient_name,doctor_name, concat(patient_name,doctor_name) as new_column
63 from patients_table;
64
65 # Query 10
66 select age,log10(age) as log_val
67 from patients_table;
68
69 # QUERY 11
70 select * , extract(year from p_date) as Years
71 from patients_table;
72
73 # QUERY 12
74 select patient_name,doctor_name, case when patient_name=doctor_name then 'NULL' else
75 patient_name end as newcol
76 from patients_table;
77
78 # QUERY 13
79 select patient_name,age, case when age>50 then 'YES' else 'NO' end as OLDER
80 from patients_table;
81
82 # QUERY 14
83 select doctor_name,count(*) as duplicates
84 from patients_table
85 group by doctor_name
86 having count(*)>1;
```