

```

1  -- Patient Diagnosis Report Project - Sonal Ranpise
2  -- DESCRIPTION:
3  -- The data analyst of a hospital wants to store the patient diagnosis reports with the
4  -- details of the doctors and the patients for good medical practice and continuity of care.
5  -- Objective:
6  -- The database design helps to retrieve, update, and modify the patient's details to
7  -- keep track of the patient's health care routine.
8  -- Task to be performed:
9
10 -- Task 01 :
11 -- Write a query to create a patients table with the fields such as date, patient id,
12 -- patient name, age, weight, gender, location, phone number, disease, doctor name, and
13 -- doctor id.
14 CREATE DATABASE Patient_Diagnosis_Report;
15 USE Patient_Diagnosis_Report;
16 CREATE TABLE Patient_Diagnosis_Report.patients_table
17 (
18     date DATE NOT NULL,
19     pid VARCHAR (100) PRIMARY KEY NOT NULL,
20     p_name VARCHAR (100) NOT NULL,
21     age INT NOT NULL,
22     weight INT NOT NULL,
23     gender VARCHAR (100) NOT NULL,
24     location VARCHAR (100) NOT NULL,
25     phone_no INT NOT NULL,
26     disease VARCHAR (100) NOT NULL,
27     doctor_name VARCHAR (100) NOT NULL,
28     doctor_id INT NOT NULL
29 );
30 DESCRIBE Patient_Diagnosis_Report.patients_table;
31
32 -- Task 02 :
33 -- Write a query to insert values into the patients table.
34 INSERT INTO Patient_Diagnosis_Report.patients_table (date, pid, p_name, age, weight,
35 gender, location, phone_no, disease, doctor_name, doctor_id)
36 VALUES
37 ("2019-06-15", "AP2021", "Sarath", "67", "76", "Male", "chennai", "5462829",
38 "Cardiac", "Mohan", "21"),
39 ("2019-02-13", "AP2022", "John", "62", "80", "Male", "bangalore", "1234731", "Cancer",
40 "Suraj", "22"),
41 ("2018-08-01", "AP2023", "Henry", "43", "65", "Male", "Kerala", "9028320", "Liver",
42 "Mehta", "23"),
43 ("2020-04-02", "AP2024", "Carl", "56", "72", "Female", "Mumbai", "9293829", "Asthma",
44 "Karthik", "24"),
45 ("2017-09-15", "AP2025", "Shikar", "55", "71", "Male", "Delhi", "7821281", "Cardiac",
46 "Mohan", "21"),
47 ("2018-07-22", "AP2026", "Piysuh", "47", "59", "Male", "Haryana", "8912819", "Cancer",
48 "Suraj", "22"),
49 ("2017-03-25", "AP2027", "Stephen", "69", "55", "Male", "Gujarat", "8888211", "Liver",
50 "Mehta", "23"),
51 ("2019-04-22", "AP2028", "Aaron", "75", "53", "Male", "Bangalore", "9012192", "Asthma",
52 "Karthik", "24");
53 SELECT*FROM Patient_Diagnosis_Report.patients_table;
54
55 -- Task 03 :
56 -- Write a query to display the total number of patients in the table.
57 SELECT COUNT(PID) AS total_number_of_patients FROM Patient_Diagnosis_Report.
58 patients_table;
59 -- OR
60 SELECT COUNT(*) AS total_number_of_patients FROM Patient_Diagnosis_Report.patients_table
61 ;
62
63 -- Task 04 :
64 -- Write a query to display the patient id, patient name, gender, and disease of the
65 -- patient whose age is maximum.
66 SELECT pid, p_name, gender, disease, MAX(AGE) AS maximum_age FROM
67 Patient_Diagnosis_Report.patients_table;
68
69 -- Task 05 :

```

```

53 -- Write a query to display patient id and patient name with the current date.
54 SELECT pid, p_name, NOW() AS currentdate FROM Patient_Diagnosis_Report.patients_table;
55
56 -- Task 06
57 -- Write a query to display the old patient's name and new patient's name in uppercase.
58 SELECT p_name, UCASE(p_name) AS p_name_uppercase FROM Patient_Diagnosis_Report.
patients_table;
59
60 -- Task 07
61 -- Write a query to display the patient's name along with the length of their name.
62 SELECT p_name, LENGTH(p_name) AS p_name_length FROM Patient_Diagnosis_Report.
patients_table;
63
64 -- Task 08
65 -- Write a query to display the patient's name, and the gender of the patient must be
mentioned as M or F.
66 SELECT p_name, MID(gender,1,1) AS gender FROM Patient_Diagnosis_Report.patients_table;
67
68 -- Task 09
69 -- Write a query to combine the names of the patient and the doctor in a new column.
70 SELECT concat(p_name," ", doctor_name) AS patient_doctor_combine_name FROM
Patient_Diagnosis_Report.patients_table;
71
72 -- Task 10
73 -- Write a query to display the patients' age along with the logarithmic value (base 10)
of their age.
74 SELECT age, log10(age) AS logarithmic_value_age FROM Patient_Diagnosis_Report.
patients_table;
75
76 -- Task 11
77 -- Write a query to extract the year from the given date in a separate column.
78 SELECT*, YEAR(AGE) AS year FROM Patient_Diagnosis_Report.patients_table;
79 -- OR
80 SELECT YEAR(AGE) AS year FROM Patient_Diagnosis_Report.patients_table;
81
82 -- TASK 12
83 -- Write a query to return NULL if the patient's name and doctor's name are similar else
return the patient's name.
84 SELECT IFNULL(p_name,doctor_name) FROM Patient_Diagnosis_Report.patients_table;
85
86 -- TASK 13
87 -- Write a query to return Yes if the patient's age is greater than 40 else return No.
88 SELECT AGE, IF(AGE > 40 ,"YES", "NO") AS age_greater_than_40 FROM
Patient_Diagnosis_Report.patients_table;
89
90 -- TASK 14
91 -- Write a query to display the doctor's duplicate name from the table.
92 SELECT doctor_name, COUNT(*) AS doctor_name_duplicate_name FROM Patient_Diagnosis_Report.
patients_table GROUP BY doctor_name HAVING COUNT(*) > 1;
93

```